

# User Manual CamIQ® Control Version 4.5

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 $Errors, changes \ and \ omissions \ excepted.$ 

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#### 1. INTRODUCTION AND INITIAL OPERATION

By selecting a CamlQ<sup>®</sup> product you have chosen a professional software that guarantees highest quality and reliability. We would like to thank you very much for your confidence and kindly ask you to read the following instructions carefully before commissioning and operating in order to take full advantage of all the quality features in this product.

On the first few pages the manual will display the installation and commission of the CamlQ<sup>®</sup> Control software. After that each configuration menu will be explained to you one by one. If you process the buttons and input fields in the same order as they are explained in this manual, you will get your CamlQ<sup>®</sup> Control Software configured in a fast and easy way.

It is not necessary to work with every single configuration menu. Just pick those functions you really need and want to work with.

In the next section of the operating instructions you will find a guide that explains how to use CamlQ<sup>®</sup> Control in daily duty. All buttons and operating elements of the Management will be explained to you and you can learn more about their characteristic attributes.

After that you will find some documentation about tools, which make working with CamlQ<sup>®</sup> Control much comfortable and offer additional functions that you may want to use.

If you have any questions or do you need help for the installation, do not hesitate to contact our technical support.

E-Mail: <a href="mailto:support@rosemann-software.de">support@rosemann-software.de</a> Serviceline: +49 (0) 431 799 699-20



#### 1.1 System Requirements

Minimum requirements are depending on configuration/ cameras and activated modules/ options. Recommended platform [Minimum requirements for standard version without options in brackets]

- Microsoft<sup>®</sup> Windows Version 7 (SP1), Server 2008 R2 (SP2); Information about further OS-Versions can be found on our website.
- Intel<sup>®</sup> Core<sup>™</sup> i7-2600 Processor, 3,4 GHz [Intel<sup>®</sup> Atom N2800, 1,8 GHz or better]
- 4 GB RAM [2 GB RAM]
- Graphics card for a minimum resolution of 1280x1024 (dual head recommended for Adv. & Enterprise Client)
- 1 GB free hard disk space for installation
- DVD-ROM drive
- Installed TCP/IP network
- 1 USB port for dongle (for Enterprise Client)

# Additional for CamIQ<sup>®</sup> Server

- Additional hard disk space depending on required recording time (typical min. 250 GB per camera)
- 1 USB port for dongle

**Please note:** Additional information about hardware requirements and compatibility can be found on our website: **www.camig.net** 

The use of this software is subject to the corresponding End User Licence Agreement (EULA) of rosemann software GmbH. The End User Licence Agreement can also be found on the internet at www.rosemann-software.de.

Please read the End User Licence Agreement before installing and using the software.

This software has to be activated via internet or by telephone after installation.

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#### 1.2 Licence Regulations

The purchase of CamIQ<sup>®</sup> Control entitles you to use the software on one computer.



#### 2. INSTALLATION

# 2.1 Installation of CamlQ<sup>®</sup> Control

- Plug the USB Dongle into free USB port of your computer.
- Put the CamIQ<sup>®</sup> Control CD into the CD ROM drive. An installation wizard will start automatically.

**Note:** If the installation wizard does not start, click on the icon **My Computer** on your Windows® desktop and open the folder of your CD ROM drive. Double click on the file **Setup.exe.** The wizard will start then.

- Click on the button CamIQ<sup>®</sup> Control to start the installation.
- In the following window click on the button **Next** and follow the instructions on the screen.
- If you want to cut the installation short click on the button Abort.
- After a successful installation click on the button Finish and close the installation wizard.

# 2.2 Installation of RS Watchdog

You can install the service **RS Watchdog** in addition to CamlQ<sup>®</sup> Control as follows:

- Start the installation wizard as stated above.
- Click on the button Watchdog V1.0 to start the installation.
- In the following window click on the button Next and follow the instructions on the screen.
- If you want to cut the installation short click on the button Abort.
- After a successful installation click on the button **Finish** and close the installation wizard.



#### 3. RUN SOFTWARE, LICENCE ACTVATION AND LOGIN

#### 3.1 Run Software

Start the CamIQ<sup>®</sup> Control software by performing a double click on the CamIQ<sup>®</sup> Control icon on your desktop.

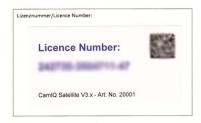
**Attention:** For starting the software it is imperellious necessary that the dongle is plugged in and the computer is connected to an Ethernet network!

• After starting the software a window will appear that invites you to enter the so called basis licence. In the window there is also row of numbers. This is the so called **Request Code**. This corresponds to the dongle number.

#### 3.2 Licence Activation

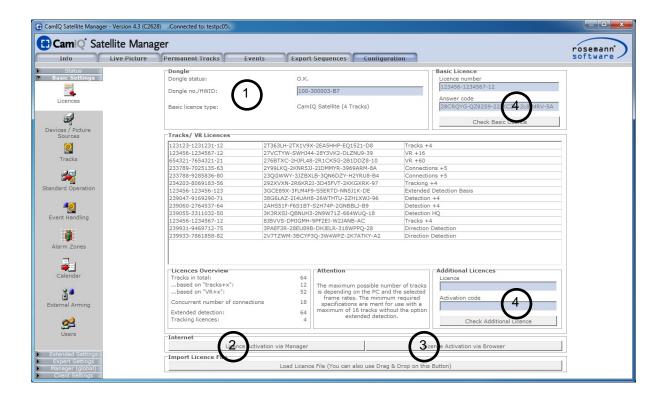
In order to use the software you will need a USB dongle and a corresponding license. If your software has not yet been activated, you can do so as described below.

First, you will need the license number for the activation. It is located on the label and looks something like this:



- In addition, you will need the dongle number. You will find it directly on the USB dongle or in the Manager Software (1).
- These numbers allow you to activate the license. Click on the button "Licence Activation via Manager" in the license menu (2) and fill in the required fields. Now click on "Request Activation Key" to have the activation code mailed to your e-mail address. Delivery usually takes place within a few minutes. Enter the activation code in the appropriate field and then click on the "Check License" button.
- Alternatively, you can also request the activation code via your browser by going to our homepage address <u>www.CamlQ.net</u> (3). Make your entry in the basic license field and then click on the "Check Basic License" button (4).
- Both methods require an Internet connection.





#### 3.3 Login

The login is performed in the **Info screen**. Here you can see the software version. The sections **Management** and **Configuration** are available after a successful login.

- Choose your language from the selective list Select Language.
- Enter your password in the text field Password.

**Note:** As factory default setting there is **NO PASSWORD**. You simply have to click on the button **Login** to enter the software as administrator.

**Attention:** Please change the password for the administrator account very soon to protect your software from unauthorised access.

If you want to logout, e.g. for changing the user, click on the button Logout.

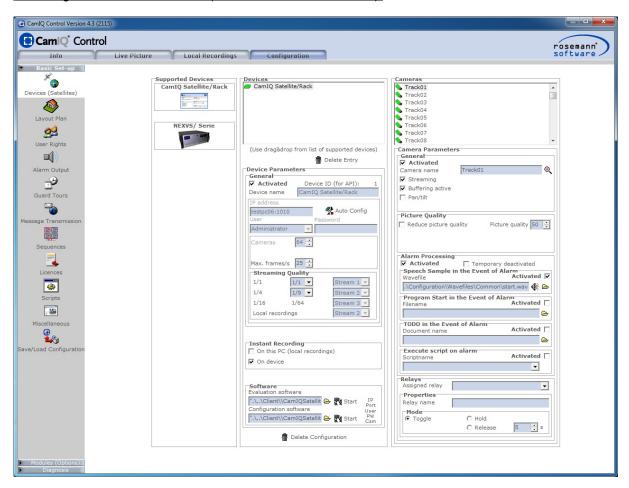


#### 4. CONFIGURATION BASIC SET-UP

# 4.1 Basic Set-up – Devices (Satellites)

This is the core chapter of the CamlQ<sup>®</sup> Control configuration. Start your configuration here. Add CamlQ<sup>®</sup> net devices and network devices to the software and configure their management and operation.

1. Adding an CamIQ<sup>®</sup> net device (CamIQ<sup>®</sup> Satellite & NEXVS):



- Click in the field Supported Devices on the symbol of the desired device and pull it via Drag & Drop (click symbol, keep mouse button pressed, move pointer, release mouse button) to the field devices.
- Now you can configure the Device Parameters.
- In the text field **Device Name** you can enter a text, which will be the name for the device in the CamlQ<sup>®</sup> Control software.
- Enter the network address of the device in the text field IP-address. You can look up the address in the configuration of the device if necessary.



 You have to enter a valid user name and password for the device in the text fields User and Password. Otherwise CamIQ<sup>®</sup> Control can't establish a connection to the selected device.

**Attention:** Please keep in mind that any CamlQ<sup>®</sup> Control user will log in to the devices with these login data when they start the management software via CamlQ<sup>®</sup> Control (this can be changed in the menu **Software** (see below) manually).

- Next you can click on the checkbox Activated. CamIQ<sup>®</sup> Control will try to establish a connection to the device. If the connection attempt was successful the device icon will turn green. If it was not successful it will turn red. In this case please check your entries.
- When a connection is established you can click on the button Auto Config to let CamlQ<sup>®</sup> Control configure the device automatically. CamlQ<sup>®</sup> Control recognizes the number of cameras, copies their names and makes settings according to the device configuration. Use this button if you have no special requests and just want to add your device with minimum effort. This button can save a lot of time.

If you don't want to use Auto Config, you have to make the next settings manually:

- Use the button Cameras to define how many camera inputs the device has.
- Use the button Max. frames / s to define how many frames per second CamIQ<sup>®</sup> Control receives from that device. This way you can adapt the bandwidth use of CamIQ<sup>®</sup> Control to your needs.

In the menu **Instant Recording** you can configure the manual recording, which can be executed in the **Management** section:

- Activate the checkbox On this PC, if you want to save your recordings of this device on the CamlQ<sup>®</sup> Control computer.
- Activate the checkbox On device, if you want to save the recordings on the device itself.
   Recording simultaneously on the computer and the device is possible.
- If you add a DITrec to CamIQ<sup>®</sup> Control you can additionally configure the number of frames that shall be recorded each second. This adjustment works independently from the settings, which were made directly in the DITrec management software. Move the slider from right to left until the desired adjustment is reached.

In the menu **Software** you can enter different login data for the login into the device, than you have entered in the menu **Device Parameters** (see above). The CamIQ<sup>®</sup> Control user will log in to the device with these data.

If you do not change anything, the user will log in with the data entered in the menu **Device Parameters**.

At the end of the path of the **Evaluation Software** is the entry **[User]**. Remove the brackets add a user name for the login instead. Add this data without **[]** and leave a space character between **user name** and **[PW]**.



- At the end of the path of the configuration software of NETrec and DITrec there is the entry Administrator. If you want to do the configuration with another user, delete Administrator and enter the desired user name.
- By clicking the button Start you can load the evaluation- and configuration software.

The buttons on the right side are only required, if you use the TCP/IP- or RS232-Options. In this case you can additionally define IP, Port, User, PW and Camera.



In the menu **Cameras** all cameras that are connected to the device are shown to you. They can be configured in the menu **Camera Parameters**.

- By clicking on the checkbox Activated you can either activate or deactivate the selected camera. It won't be displayed any longer in the CamIQ<sup>®</sup> Control Management.
- Enter a name for the camera in the text field **Camera Name**. Use the button next to the text field to adopt the name the camera has in the configuration of the CamIQ<sup>®</sup> net device itself.
- The boxes Streaming and Tracking show, if the functions Streaming (additional performance in the Management, but rises the network load) and Tracking (tracing of objects or persons with Pan/Tilt-Cameras) are available for the selected camera.
- Using the checkbox Pan/Tilt you can define, whether the selected camera is a Pan/Tilt-Camera or not. If the checkbox is activated and the camera is really a Pan/Tilt-Camera, it can be steered in the Management.
- Use the checkbox Suppress PTZ commands (appears when Pan/Tilt is checked) to suppress any steering of the selected Pan/Tilt-Camera.
- Use the button Picture quality to adjust the quality of the transferred pictures. Poor quality needs less bandwidth in your network. If your system has a bottleneck in that area, you may try to optimize the operation of CamIQ<sup>®</sup> Control.
- If you add an DITrec to CamIQ<sup>®</sup> Control you can additionally use the checkbox Reduce picture quality. Any adjustment made with the button Picture quality only works, if Reduce picture quality is checked. Otherwise pictures will be transferred with the quality, which is defined in the ITrec itself.

In the menu **Alarm Processing** you can enable of disable the general alarm processing of the selected camera by checking or unchecking the checkbox **Activated**. If **Activated** is not checked, there will be no alarm notification for this camera in the **Management**.

- By clicking the checkbox Temporary deactivated you can disable the alarm processing temporarily. But in the Management you can enable the processing at any time.
   Temporary deactivation will be indicated by this symbol:
- You can enable Speech Sample in the Event of Alarm by using the checkbox Activated. When the camera sends an alarm, a sound file will be played. In the text field Wavefile you can see where this file is stored on your system.
- Click on the Speaker to hear the sound file.



- Click on the Folder, if you want to choose another sound file. Note that this file must be a wave file (\*.wav).
- You can enable Program Start in the Event of Alarm by using the checkbox Activated. When the camera sends an alarm, a program will be started.
- Click on the Folder to choose the \*.exe file of the desired program. The path will be shown in the text field Filename.
- You can enable TODO in the Event of Alarm by using the checkbox Activated. When the camera sends an alarm, the content of a text file will appear in the Management. This may be e.g. orders for the security men.
- Click on the **Folder** to choose the \*.txt file, which has been written by you before. The path will be shown in the text field **Document name**.

In the menu **Relays** you can assign a relay to the camera. It must be a relay of the CamlQ<sup>®</sup> net device the camera is connected to. You can operate this relay directly in the camera picture.

- Choose a relay from the list Assigned relay. This is a relay of the CamIQ<sup>®</sup> net device.
- You may enter a name in the text field Relay name. This name will be displayed in the Management, e.g. "Main Entrance Door" or "North Gate".
- Then choose in the field **Mode** how the relay shall work: Either it toggles its state, or holds for a defined period of time and releases after that, or it opens for a defined period of time and holds again after that.

After you have worked on all these steps your CamlQ<sup>®</sup> net device is fully configured perfectly added to CamlQ<sup>®</sup> Control. Repeat the whole procedure with all other devices you want to add.

- If you want to delete a device, use the button Delete Entry.
- If you want to delete the whole configuration, use the button **Delete Configuration**. Click on this button only, if you are absolutely sure that you want to remove ALL devices from your configuration! Clicking the button can't be annulled!

The remaining adjustments correspond to those from the CamIQ<sup>®</sup> net devices. Please turn a few pages back for more information.



# 4.2 Streaming Server

The CamlQ $^{\circ}$  Control configuration is handled just like the CamlQ $^{\circ}$  Satellite Manager configuration. One of the three streams with a view can be linked to a CamlQ $^{\circ}$  Satellite server in the device configuration.

In addition to the views, CamIQ<sup>©</sup> Control also gives you the option of defining a stream for "local recordings".

<u>Please note:</u> This configuration is always valid only for a particular selected CamlQ $^{\odot}$  Satellite server.

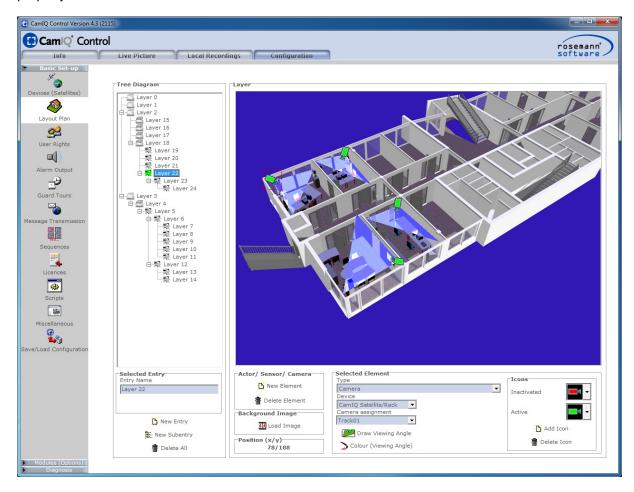
The stream configuration can only be changed on inactive devices.





#### 4.3 Site Plan

To support the security guards and to guarantee clarity you can customize a **Site Plan.** In order to receive a realistic overview all cameras can be arranged the way they are actually placed on the property.



- Click on the button New Entry to add a new layer.
- Enter a name for the layer in the text field Entry name.
- Click on the button Load Image to add a picture of the building or a map of the property.

**Note:** Example graphics are already stored in the folder **C:\Programs\CamIQ**<sup>®</sup> **Control\Configuration\Graphics\**. You may use them for demonstration purposes.

- Click on the button New Element to add a new object to the layer.
- Choose from the list Type what kind of object it is. It can be a camera, an actor (relay output) or a sensor (alarm input).
- Choose from the list **Device** the device the object belongs to.



- Then choose a camera from the list Camera assignment. The object will be adapted to this camera.
  - If you have added a camera then simply choose the camera directly which the symbol in the site plan stands for.
  - But if you have chosen an actor or a sensor instead, the camera stands for the number of the relay or alarm input. So the first camera stands for relay 1 or alarm input one, the second camera for relay 2 or alarm input 2 and so on.
- After you have added a camera you have to draw its viewing angle. First click on the button Draw Viewing Angle. Now there is a line between camera symbol and mouse pointer. This is one arm of the angle. Move the pointer to the desired position and perform a left click. The first arm is now fixed between the camera symbol and that point.
  Move the pointer to a second point. Again there is a line between the mouse pointer and the camera symbol. This is the second arm of the viewing angle. Perform a left click to finish the angle. The angle is now emphasised by a colour.
- You can change the colour of the viewing angle by clicking on the button Colour (Viewing Angle). Select the desired colour from the palette.

CamlQ<sup>®</sup> Control provides symbols for all types of site plan objects. You can also add your own symbols.

If you want to chose another graphic for the object click on the symbol in the site plan and then choose the desired symbols from the lists Inactivated and Activated.
 Inactivated means that there is no signal coming from the camera, the alarm input is not operated or the relay is in dormancy.
 Activated means that there is a signal coming from a camera, the alarm input is operated or the relay is switched at the moment.

#### Please note the following lines when you create your own symbols:

It is recommended to use square graphics. The usual size is 32 x 32 pixels, but it may differ. CamIQ<sup>®</sup> Control does not scale the graphics afterwards.

Furthermore one colour is always defined as transparent. This way it is possible to create e.g. a transparent background. The colour of the very first pixel in the upper left corner is always defined as transparent. E.g. if this pixel yellow, all other yellow pixels will be transparent as well. Besides this the graphic must be in bitmap format (\*.bmp).

Note that CamlQ<sup>®</sup> Control makes a copy of the graphic into the folder **C:\Programs\CamlQ Control\Resources\Common\BuildingPlanIcons\**. So please don't move any graphics into this folder yourself, because CamlQ<sup>®</sup> Control would then add this graphic twice to the inactivated and activated list.

Every added graphic will be added to the activated and inactivated list.

- Click on the button Add Icon and choose the desired symbol.
- If you want to delete a graphic click on the button **Delete Icon**. Before that choose the symbol from the list **Activated**.
- If you want to delete a whole object from the site plan click on the symbol to mark it. Then click the button **Delete Element**.

Repeat these steps for every layer you add. You can arrange the layers in a tree-like structure. This will provide more clarity.



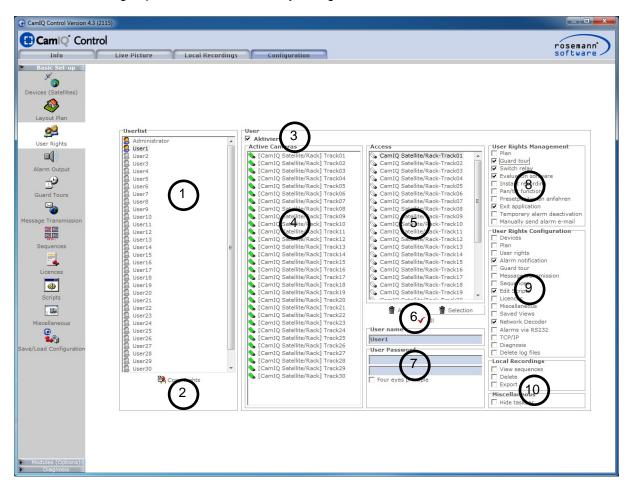
- Use the button New Subentry to create a new layer which will be subordinated to the marked one. This subordination can be continued.
- Use the button New Entry to add a new layer. This layer will appear in the same level of the tree as the one which is actually marked. So if you have just marked a subordinated layer and click on New Entry. The new layer will appear next to the marked one; same level and in the same way subordinated.

This kind of arrangement is especially recommended if you have to monitor a high number of buildings and floors.

- If you want to delete a marked layer, click on the button **Delete Entry**. Note that you first have to delete all subordinated layers before you can delete the superordinated one.
- If you want to delete the whole site plan configuration click on the button **Delete All**. Click this button only if you are absolutely sure that you want to delete ALL layers! This step can't be undone!

#### 4.4 User Rights

Control can manage up to 32 users, each freely configurable.





- All user accounts are displayed in the user list (1). To configure one, mark it.
- With the Activate (3) button you can activate and deactivate user accounts. Deactivated users can no longer log in.
- You can give each user individual access rights to cameras. To do this, use drag & drop to pull the cameras the user should have access to from the Camera Assignment (4) list into the Camera Access Rights (5) field.
- If the user should have access to all cameras, simply click on the Select All (6) button.
- If you wish to remove all cameras from the field, click on the Delete All (6) button.
- If you wish to remove only the currently selected camera, use the Selection (6) button.
- In the Rights Management (8) menu you can specify which Control functions the user can access in Live Image. To find out what the individual items represent, take a look at this manual's Chapter 7: Live Picture.
- In the **Rights Configuration (9)** menu you can either allow or deny access to individual menu items for a given user.

**Attention:** If you give the user access to the **User Rights** menu, the user can alter his or her rights at will! In a worst case scenario, this can undermine your security policy!

- In the **Local Recordings (10)** menu, you can determine to what degree the user has access to local recording functions and which functions he or she will be allowed to use in this context.
- In the **Miscellaneous (10)** menu, you can activate the **Block Taskbar** item for the respective user. In this case, the taskbar (the gray bar at the lower margin of the screen) will disappear as soon as the user logs on. The user will no longer have access to programs or system settings. In addition to this, access to the task manager (displays and allows access to all active system processes) will also be blocked.
  - This will only work if the **taskbar set** and **display taskbar in foreground** taskbar property settings have been activated.
- Give the user a password using the User Password (7) field. Enter the password in the upper white field. It will appear in red, which is normal.
  Confirm your password by entering the password a second time in the second white field below. As soon as the two entries match, the red will change to white again. If this does not happen, it means that the two lines are not identical. In this case, please check your entries.
- By activating the Four Eyes Principle (7) button, you can issue such a password for a given user.
- The software is delivered without a password for the administrator account. Please enter a password now to protect your security software from abuse.

**Please note:** It is recommended that the password have a length of at least 8 characters and contain both letters and numbers. Avoid the use of such names as company names, pet names or the names of close relatives.

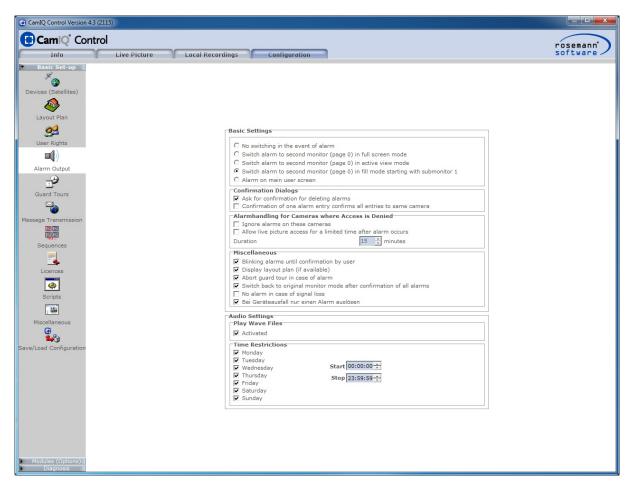


Should you have problems remembering your password, write it down and place it in a safe location. Should you forget your administrator password without having allowed anyone access to the user rights you will, unfortunately, have to completely de-install and subsequently reinstall Control again. Unfortunately, this would result in the loss of all of your configuration settings as well.

Therefore, please be very careful with your administrator password – and also with your basic license!

#### 4.5 Alarm Output

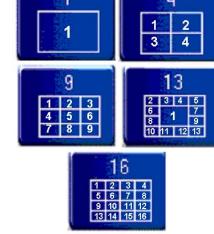
This chapter is about how CamIQ<sup>®</sup> Control announces an alarm event visually and acoustically.



In the menu **Basic Settings** you can adjust how CamIQ<sup>®</sup> Control shall display the pictures of alarm cameras. Note in this context the method of counting the monitors (picture to the right).



- If you choose No switching in the event of alarm CamIQ<sup>®</sup> Control will announce the alarm, but won't show the pictures of the alarm camera automatically.
- Switch alarm to monitor 1 (full screen) means that the alarm will be shown on monitor 1 (see picture on the right) in single view.
- If you choose Switch alarm to monitor 1 (actual view) the alarm picture will be shown in monitor 1 in the actual multiple view.
- Switch alarm to monitor 1...16 means that the actual multiple view will be used and extended on demand. CamIQ<sup>®</sup> Control fills one after another the monitors with alarm pictures.
- If the function **Alarm on monitor 0** is chosen CamlQ<sup>®</sup>
  Control won't display the alarm on one of the monitors as described above, but in the monitor which is surrounded by the buttons and fields of the **Management**.



In the menu Confirmation Dialogs you can define how easy it is to confirm an alarm notification.

- If Ask for confirmation for deleting alarms is activated, a window will appear that asks the user
  to confirm the erasure of the alarm. (How the erasure is done in detail can be looked up in the
  chapter Management)
- The function Confirmation of one alarm confirms all alarm entries of a camera makes it much more comfortable for the user to confirm many alarms.
  If one camera sends several alarms every single alarm event will be registered in the alarm list of the Management. If this function is activated not every single alarm has to be confirmed individually. Instead the confirmation of one alarm will confirm all alarms of the same camera.

In the menu **Alarmhandling for Cameras where Access is Denied** you can configure how CamlQ<sup>®</sup> Control shall behave when an alarm occours on a camera where the user has no rights (see chapter **4.3 User Rights**) for. Something should be configured in this menu.

- If **Ignore Alarms on these Cameras** is activated, the user will not get any notification when an alarm occurs on a camera that he has no rights for.
- If Allow live picture access for a limited time after alarm occurs is activated, the user will be able to see the picture of a camera where an alarm occurs, although he has no rights for it. He can also use all other camera related functions (\*e.g. open the viewer software).
- Use the buttons Duration to adjust how long after the alarm event the user shall be able to see the camera. After that period of time the user will lose its temporary rights for the camera and won't be able to see the picture anymore.



In the menu **Miscellaneous** you can activate the function **Blinking alarms until confirmation by user**. If this function is activated the camera with the alarm will blink in the site plan until the user has confirmed the alarm.

This is very effective collaboration with the function **Display site plan (if available)**. If this function is enabled, the site plan containing the alarm camera will be displayed in monitor 0 (so don't use it together with the function **Alarm on monitor 0**). The user can see immediately where the alarm has happened and which camera has caused the alarm.

The site plan will only appear if the active user has the right to see the site plan in the **Management** (see chapter **4.3 User Rights**).

- The function Abort guard tour in case of alarm means that a guard tour (see chapter Guard Tour) will be aborted immediately if an alarm occurs. The user doesn't need to stop the guard tour manually and can see the alarm pictures right away.
- If Switch back to original monitor mode after confirmation of all alarms is activated the monitors will be arranged the same way as they were before the alarms occured. If you have configured in this menu that the alarm events shall be displayed, your monitor arrangement will be changed. This function helps to get back the original order.
- If the No Alarm during Signal Loss function is activated, the Control software will not automatically generate an alarm when the camera signal is interrupted. However, should the device issuing the signal automatically send signal loss messages when a signal is interrupted, an alarm will nevertheless be visible in the Live Image. In order to shut down these signal loss messages completely, you must activate this function in the Control software once while simultaneously deactivating all signal loss messages on the connected device.

In the menu **Play Wave Files** you can choose if CamlQ<sup>®</sup> Control shall make any acoustical notifications in case of alarm at all. This adjustment here maybe overwrites the configurations you have made in the configuration menu **Devices (Satellites)**.

If the acoustical output is activated, you can select times when this activation shall have affect.

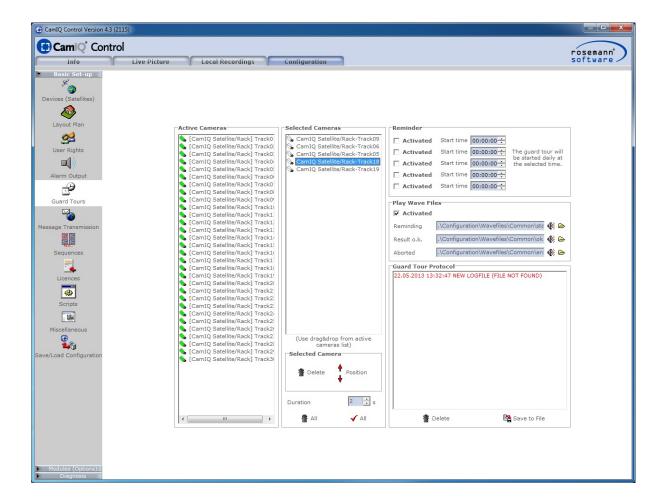
- Activate weekdays when the acoustical output shall be performed.
- Enter **Start** and **Stop** times to define in which space of time the output shall be activated. An individual time schedule for each day is not possible.

#### 4.6 Guard Tours

As an option you can configure **Guard Tours** which on the one hand will support the conscientiousness of the security guards and on the other hand can make sure that all camera pictures are watched regularly.

On a guard tour all selected cameras will be shown successively whereas the user has to acknowledge every single camera. If and how the guard tour ended will be documented in an own protocol.





- To select cameras for the guard tour Drag & Drop them from the list Active Cameras to the field Selected Cameras. You can select cameras several times.
- If you want to select all cameras simply click on the button
- If you want to remove all cameras from the field **Selected Cameras** simply click on the button
- Single cameras can be removed by marking them and then clicking on the button
- The order in the field Selected Cameras illustrates the order of the cameras which will be displayed on a guard tour. You can change the order by marking one camera and moving it up and down within the list with the two **Position** arrows.
- You can adjust how long a camera picture will be shown before the user is asked for acknowledgement with the button **Duration**. This time applies to all cameras.
- You can define up to 5 times in the menu Reminder when a guard tour will be started automatically. Enter the time and activate it by clicking on the checkbox Activated.

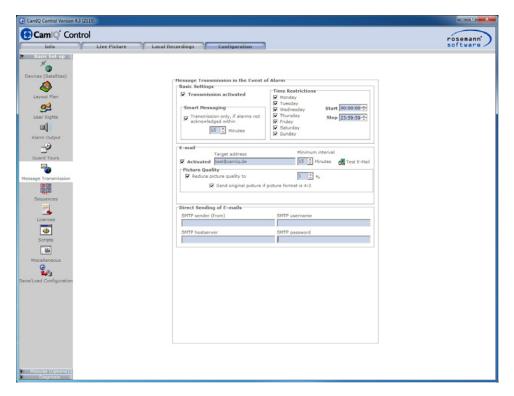


- In the menu Play Wave Files you can configure the acoustical signals of the guard tour.
  - Click on the checkbox **Activated** to enable the audio output.
  - In the text field **Reminding** you can see the source of the sound file, which will be played when a time-controlled guard tour starts.
  - Click on the speaker symbol to hear that sound.
  - Click on the **Folder** to choose another sound file. Note that this file must be a wave file (\*.wav).
  - In the text field **Aborted** you can see the source of the sound file, which will be played when a guard tour was aborted. Speaker and Folder have the same functions as stated above.
  - In the text field **Result o.k.** you can see the source of the sound file, which will be played when a guard tour was completed successfully. **Speaker** and **Folder** have the same functions as stated above.
- You can see a protocol of all guard tours in the field Guard Tour Protocol. Here you can see when a guard tour took place, if it was completed successfully or was aborted by the user.
- Click on the button **Delete**, if you want to delete all protocol entries. Note that the erasure will be the first record in the new protocol and can be traced back.
- Click on the button Save to File to export the protocol as a \*.rtf document. So you can save it e.g. on a mobile storage media.



#### 4.7 Message Transmission

CamIQ<sup>®</sup> Control is able to send E-mails or SMS in the event of alarm. In addition to that a phone call can be made. If you want to use these functions you have to configure them in this menu.



In the menu Basic Settings you can configure the Message Transmission in general and activate it.

- To activate the Message Transmission at all click on the checkbox Transmission activated.
- In the menu Time Restrictions you can define when the Message Transmission shall be enabled. Activate the desired week days and adjust the Start and Stop times.
- To activate Smart Messaging click on the corresponding checkbox and enter a time. If Smart Messaging is activated, the Message Transmission will only be initiated when an alarm event has not been acknowledged by the user before the preconfigured time has expired. This might prevent a flow of transmission although an able and conscientious guard is on duty and has an eye on the software.

**Note:** The PC must be connected to the internet if the functions E-mail, SMS and Voice call shall be used!

In the menu E-mail you can define the recipient of the E-mails and how it shall be sent.

- Use the checkbox Activated to enable the E-mail function.
- Enter the recipients address in the text field Target address.



- You can define a time which must have expired before a second E-mail will be sent in the field
   Minimum interval.
  - This might protect the recipient's mailbox from a flow of E-mails.
- Use the button Test E-Mail at the end of the configuration to check if the sending of E-mails works.
- Activate the checkbox Send e-mail via Tobit David if the CamIQ<sup>®</sup> Control PC has the software David from Tobit and shall use it for sending E-mails.

Alarm images will automatically be attached to the e-mails. In order to save memory, these images can be more thoroughly compressed. You can set this in the **Image Quality (4)** menu.

- Activate the Reduce Image Quality to button and enter the desired quality in percent.
  - **Please note:** Should the attached images appear to be very squeezed together, please use this function. Recompression will restore the images to their original format.
- The **Send Original Images when Aspect Ratio is 4:3** function indicates that images naturally having a page ratio of 4:3 can be sent without any formatting changes. Images with other formats (half screen, for instance) will normally be reformatted.

You only need the menu **Direct sending of E-Mails** if you don't want to send your E-mails with Tobit David. Instead you need an E-mail account from an public service provider.

- Enter in the text field **SMTP sender (from)** from which E-mail address the message shall be sent.
- Enter in the text field SMTP username the user name of your E-mail account at your public service provider.
- Enter in the text field **SMTP hostserver** the name of mail server of your public service provider.
- Enter in the text field SMTP password the password of your E-mail account at your public service provider, so that CamIQ<sup>®</sup> Control can login to the account and send E-mails.

**Note:** The following functions in the menu **Transmission via Tobit David** are only available if the computer is equipped with the software Tobit David.

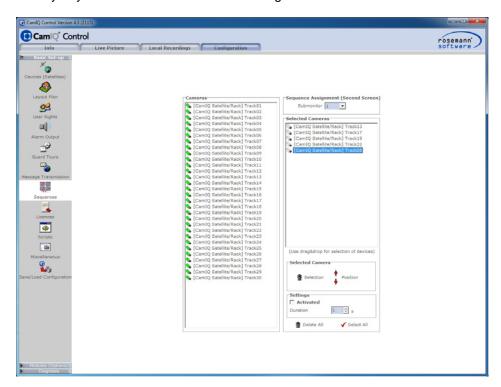
- Enter in the text field **Server and directory** your own Tobit server and its output folder.
- You can activate the sending of sms by clicking on the checkbox Activated in the menu SMS.
- Enter the target number in the text field **Target number**.
- You can define a **Minimum interval** the same way as with E-mails.
- Use the button **Test SMS** to send a sms manually to check if your configuration works.
- You can activate the voice call by clicking on the checkbox Activated in the menu Voice call.
- Enter the target number in the text field **Target number**.



- You can define a Minimum interval the same way as with E-mails.
- Use the button Test Call to send a sms manually to check if your configuration works.

# 4.8 Sequences

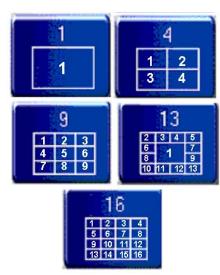
In this menu you can define **Sequences**. Sequences show selected cameras in a single monitor one after another. Maybe you know this function from analogue cross bars.



- First choose a monitor from the list Monitor.
   The counting of the monitors can be seen in the graphic on the right.
- Then Drag & Drop a camera from the list Cameras to the field Selected cameras.

You can choose a camera several times.

- Use the button Select All to add all cameras at once.
- Use the button Delete All to remove all cameras at once.
- Remove single cameras by marking them and clicking on the button selection.
- The order in the field Selected Cameras illustrates the order of the cameras which will be displayed. You can change the order by marking one camera and moving it up and down within the list with the two Position arrows.





 Then adjust the time how long a camera will be shown in the menu Settings with the buttons Duration.

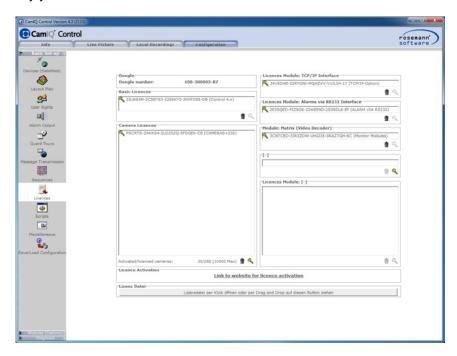
If a specific camera shall be shown longer than others, simply add this camera one more time to the list and place it directly under its first entry. By doing so the camera will be shown twice and can so be seen twice the time.

• Finish the configuration by clicking on the checkbox **Activated** to start the sequence.

You can configure a separate sequence for every single monitor, which works independently from the other sequences.

#### 4.9 Licences

You can manage your licences in this configuration menu. You can enter additional licences (e.g. to add more cameras or activate options), delete licences or see all your activation codes and keep them safely – especially your basic licence!



- You can see your dongle number in the field **Dongle Number**. It's also written on the tag on the dongle.
- You need this number for every activation request as licence number.
- In the field Basic Licence you can see your basic licence. If you should ever lose your documentation about the basic licence you can copy it from here.
   In addition to that you can also see which version of CamIQ<sup>®</sup> Control is in use.
- When you click on the **Key** button the request code / dongle number will be shown to you and you are asked to enter the basic licence again.
- Click on the Trashcan to delete your basic licence. Click on this button only, if you know very well what you are doing and you have good reasons for that!



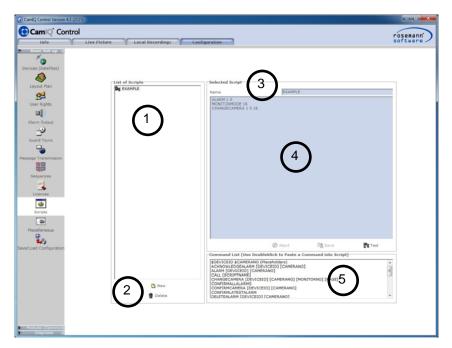
- In the field Camera Licences you can see which additional licences you have activated. You can find further information about how to add more cameras to your CamIQ<sup>®</sup> Control in the chapter Problems, Questions, Answers.
- The remaining license fields (5) all function in the same manner. By clicking on the Key, a dongle number will be displayed. Enter your activation code for the respective option in the window and confirm the entry with a click on OK.
  - The entered license now appears in the corresponding license field.
  - A click on **Trash Can** allows you to delete the license from Control.
- In the License Activation (4) field, you can click on the Internet License Activation link and, provided that your PC is connected to the Internet, directly connect to a site where licenses can be activated.

# 4.10 Scripts

This menu enables you to create small macros - referred to as scripts. These can be triggered either by alarms or manually in **Live Image**.

- The Available Scripts (1) list displays all scripts that have already been created.
- The New (2) button allows you to create a new script.
- The Delete (2) button allows you to delete a script that has already been selected.
- In the **Name (3)** field, you can give a selected script a designation.
- The actual script is written in field **(4)**. A specific syntax will be necessary for this and will be explained in detail below.

The **Commands (5)** field displays the available commands. With a double click on a command, you can enter it into your script and will then only need to adjust the variables (in the brackets).





#### Syntax:

Please note: Every command must begin on a new line!

# ALARM [DEVICEID] [CAMERANO]

Function: An alarm will be triggered.

#### Parameters:

- DEVICEID: The device ID is generated automatically. You will find the device ID in the general device parameter configuration under **Devices (Satellites)** (see Chapter 4.1).
- CAMERANO: The camera number corresponds to the camera entry of the device's camera list with the heading "Devices (Satellites)" (see Chapter 4.1).

Example: **ALARM 1 0**: Control displays an alarm for device ID 1 on the first camera (the numbering begins with 0!).

# **DELETEALARM [DEVICEID] [CAMERANO]**

Function: Deleting the alarm of an image source.

#### Parameters:

- DEVICEID: The device ID is generated automatically. You will find the device ID in the general device parameter configuration under **Devices (Satellites)** (see Chapter 4.1).
- CAMERANO: The camera number corresponds to the camera entry of the device's camera list with the heading "Devices (Satellites)" (see Chapter 4.1).

Example: **DELETEALARM 1 0**: The alarms from the first camera - with device ID 1 - will be deleted from the alarm list.

#### **ACKNOWLEDGEALARM [DEVICEID] [CAMERANO]**

Function: The alarm of an image source will be confirmed.

#### Parameters:

- DEVICEID: The device ID is generated automatically. You will find the device ID in the general device parameter configuration under **Devices (Satellites)** (see Chapter 4.1).
- CAMERANO: The camera number corresponds to the camera entry of the device's camera list with the heading "Devices (Satellites)" (see Chapter 4.1).

Example: **DELETEALARM 1 0**: The alarms of the first camera - with device ID 1 - will be confirmed in the alarm list.

# **CALL [SCRIPTNAME]**

Function: An additional script will be executed.

#### Parameters:

SCRIPTNAME: The name of an additional script found in the menu.

Example: CALL 16\_fold\_view: The script with the name "16\_fold\_view" will be executed.



### CHANGECAMERA [DEVICEID] [CAMERANO] [MONITORNO][PAGE]

Function: Switches a camera on a particular page of a monitor.

#### Parameters:

- DEVICEID: See above ("ALARM [DEVICEID] [CAMERANO]").
- CAMERANO: See above ("ALARM [DEVICEID] [CAMERANO]").
- MONITORNO: The monitor number identifies the monitor. Monitor 0 represents the main window.
   Monitor 1 is the multi-view at the far upper left, monitor 2 is to the right of that, and so on.
- PAGE: When the matrix option is used (see Chapter 8), more than just two screens will be used. For this reason, it is important to define the screen (or the page). The working and video screen is page 0. The first matrix video screen is 1. The numbering continues in this manner as is visible in Live Image.

Example: "CHANGECAMERA 1 1 5 1": On monitor 5 of page 1, the device with ID 1 will be displayed on the second camera.

# MONITORMODE [MODE(1,4,9,13,16,25,33,36,49,64)][PAGE]

Function: The monitor mode will be switched.

#### Parameters:

- MODE(1,4,9,13,16,25,33,36,49,64): Enter the number of monitors on the screen.
- PAGE: If the matrix option is used (see Chapter 8), more than two screens will be used. For this reason, it is important to define the screen (or the page). The working and video screen is page 0. The first matrix video screen is 1. The numbering continues in this manner as visible in Live Image.

Example: "MONITORMODE 25 2": Switches the second page (in other words, third video screen) to the 25-fold view.

#### PRESETPOSITION [DEVICEID] [CAMERANO] [PRESETPOS]

Function: Moves to a preset position. This function can only be used if the desired camera has been configured as a standard network camera.

#### Parameter:

- DEVICEID: See above ("ALARM [DEVICEID] [CAMERANO]").
- CAMERANO: See above ("ALARM [DEVICEID] [CAMERANO]").
- PRESETPOS: The preset position that is to be moved to. The numbering of the preset positions begins with 0.

Example: "PRESETPOSITION 2 0 0": The first camera of the device with ID 2 will be moved to preset position 1.

#### RELAY [DEVICEID] [RELAYNO] [STATUS(0,1)] [DURATION]

Function: Switches or opens a relay.

#### Parameters:

- DEVICEID: See above ("ALARM [DEVICEID] [CAMERANO]").
- RELAYNO: The relay number corresponds to the position in the dropdown list of the relays for the respective device (see Chapter 4.1). Relay numbering begins with 0.
- STATUS(0,1): Enter the status the relay is to be switched to. "1" will switch the relay, "0" will open the relay.



DURATION: Enter the time - in seconds - for which the relay is set to a new status

Example: "RELAY 1 0 1 5": Switches the first relay of the device with ID 1 for five seconds.

# STARTRECORDING [DEVICEID] [CAMERANO] [DEVICE(0,1)] [LOCAL(0,1)] [DURATION(s)]

Function: Starts an image recording.

#### Parameters:

- DEVICEID: See above ("ALARM [DEVICEID] [CAMERANO]").
- CAMERANO: See above ("ALARM [DEVICEID] [CAMERANO]").
- DEVICE(0,1): With this value you determine whether an image recording should take place with the device. A "0" setting means that no images will be recorded with the device, a "1" means that that the device will record images. This option corresponds to the "On Device" setting possibility in the **Devices (Satellites)** menu (see chapter 4.1).
- LOCAL(0,1): With this value you determine if a local image recording should take place. An "0" setting means that no images will be recorded locally, a "1" means that that the device will record images locally. This option corresponds to the "On Device"setting possibility in the **Devices** (Satellites) menu (see Chapter 4.1).
- DURATION(s): Enter the duration of the recording in seconds.

Example: "STARTRECORDING 1 0 0 1 8": Starts a local recording for eight seconds on the device with ID "1" using the first camera. No images will be recorded on the device.

# SENDRS232 [String] (,,%20"=,, ", ,,%25" = ,,%", etc.)

Function: A defined string will be sent over an RS232 port. Here, the "%20" corresponds to "space", "%25" corresponds to "%," etc.

# Parameters:

STRING: You define here the string that is to be sent over the RS232 port.

Example: "SENDRS232 open%20barriers": Sends the string "open barriers" to the RS232 port. **SETICONSTATUS [ICONID] [STATUS(0,1)]** 

Function: Changes the status of a defined symbol to either 0 or 1.

#### Parameters:

- ICONID: Enter the icon ID here. You will find the icon ID in the site plan configuration (see chapter 4.2).
- STATUS(0,1): Enter a "1" to activate the "Active" icon. Enter a "0" to activate the "Inactive" icon.

Example: "SETICONSTATUS 1701277287 1": Sets the icon status with the icon ID 1701277287 to active.

## **SETVIEW [PAGE] [VIEWNO]**

Function: Switches-on the defined view onto the defined page.

#### Parameters:

- PAGE: Enter the page here (0 corresponds to the 2nd monitor).
- VIEWNO: Enter the defined view here (you can learn more about views in Chapter 5.1 Views/Favorites).



Example: "SETVIEW 0 1": Switches on the 1st predefined view onto the 2<sup>nd</sup> monitor.

# **MONITORPAGE [PAGE]**

Function: Switches the denoted monitor onto the second monitor.

#### Parameters:

PAGE: Enter the page here (0 corresponds to the 2<sup>nd</sup> monitor).

Example: "MONITORPAGE 1": Switches the current view of the 3rd monitor to the 2<sup>nd</sup>.

# STOPNVDSTREAM [MONITORNO] [PAGE]

Function: Stops the stream on the indicated monitor of the given page.

#### Parameters:

- MONITORNO: Enter the monitor number here (you will learn more about numbering in Chapter 4.7 - Sequences.)
- PAGE: Enter the page here (0 corresponds to the 2<sup>nd</sup> monitor).

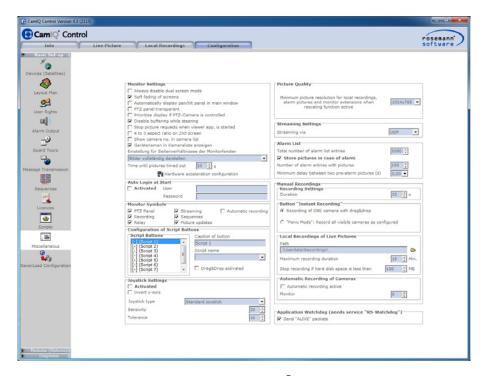
Example: "SOPNVDSTREAM 3 0": Stops the stream on the 3rd camera display of the 2<sup>nd</sup> monitor.



#### 4.11 Miscellaneous

You can use this menu to make many individual adjustments, which will improve your work with CamlQ<sup>®</sup> Control and make it comply with your wishes.

Further adjustments can be conducted which may improve the performance of CamlQ<sup>®</sup> Control on your computer.



In the menu **Monitor Settings** you can define how CamlQ<sup>®</sup> Control will be displayed. The deactivation of some of these functions will save system resources and should come into consideration, if CamlQ<sup>®</sup> Control shows any performance problems.

- Use the checkbox Always disable dual screen mode if you have only one screen. Of course this is less comfortable than the use of two screens, but it offers the possibility to use CamlQ<sup>®</sup> Control even if one of your screens is broken.
  - The multiple view will become the primary screen and will be laid over the **Live picture**. CamlQ<sup>®</sup> Control will be controlled with the right mouse button then (find more information about this in the chapter **7. Live picture**).
- Use the checkbox Soft fading of screens to define if menus and views will fade in and out softly
  or not
  - If your computer has any performance problems, you should disable this function.
- Activate the checkbox Activate streaming mode in single view, if you want streaming (rise of
  the refresh rate which rises also the network load) to be activated automatically as soon as the
  camera is shown in the single view.
- Activate the checkbox Activate streaming mode in quad view.
- If you activate the checkbox Automatically display pan/tilt panel in main window, the Move Control Panel (control field for PTZ cameras) will appear automatically when a PTZ camera is shown on monitor 0.



- If you activate the checkbox **PTZ panel transparent**, the **Move Control Panel** will be half transparent. This is an advantage when you use the panel in the multiple view, because you can steer the PTZ camera and see all camera pictures at the same time. If your computer has any performance problems, you should disable this function.
- If you activate the Stop Acquisition When Viewer Software Starts function, you reduce network load. Indeed, when you then start the viewer software for one of the devices, its image acquisition will be stopped by Control, otherwise the device's images would be processed twice; once by Control and once by the viewer software.
- Activate the 4: 3 Aspect Ratio for 2nd Screen function if you wish to display the monitors on the second screen at an aspect ratio of 4:3. Images in the 4:3 format will otherwise be displayed in a slightly distorted manner because when the function is deactivated, the image sizes are made to fit the screen's aspect ratio.
- If the Display Camera Number in Camera List function is activated, the corresponding camera number will be displayed next to every camera listed in Live Image. This can simplify the camera switching process.
- Enter a time in the field Time until pictures timed out. If a camera picture is not updated within that period of time CamIQ<sup>®</sup> Control will show the message NO SIGNAL instead of the picture. Vary the time if CamIQ<sup>®</sup> Control shows you that message without any reason.

In the menu **Auto Login at Start** you can define that no password has to be entered when CamIQ<sup>®</sup> Control gets started.

- Activate this function by clicking on the checkbox Activated.
- Enter the password in the text field Password of the user that shall log in automatically.

**Attention:** Note that the use of this function may be a security risk! Unauthorised persons might get access to your security system!

In the menu **Monitor Symbols** you can configure the symbols of the camera info (see chapter **7. Live picture**).

- Activate the following checkboxes if you want to use the adapted functions by a single click on the button in the camera info:
- **PTZ panel** (opens the Move Control Panel)
- **Streaming** (rise of the refresh rate which rises also the network load)
- Automatic Recording (shows if the camera is actually recorded automatically)
- **Recording** (starts a manual recording of the camera)
- **Sequences** (the buttons for operating the preconfigured sequence of the monitor)
- **Relay** (switches the relay which is adapted to the camera)
- **Picture updates** (two green dots that twinkle every picture update)

In the **Script Button Configuration (4)** menu you can associate script buttons in **Live Image** with scripts, enabling you to execute given scripts with a simple click.

 Select a button from the Script Buttons list. The numbering of the list entries corresponds to the script button numbering in the Live Image view.



- In the Button Designation field you can enter a short name for the button which will also be displayed in Live Image.
- From the Script to be Performed selection list you can then select the script that is supposed to be executed.

**Example:** You want to switch two relays at arbitrary times and also display the corresponding camera signals. The functions which switch the relays and change the camera signals are configured in a script. Associate this script with desired script button. When the user clicks on the script button, the relays will be set and the camera signals displayed.

Please note: You can find out more about scripts in Chapter 4.9.

In the menu Alarm List you can configurate the Alarm List of the Management.

- Use the buttons **Maximum Number of Alarm Entries in List** to define how many alarm events will be stored in the alarm list. If the list is full, every new alarm will delete the oldest one.
- Activate the checkbox Store pictures in case of alarm to make CamlQ<sup>®</sup> Control save three alarm pictures per list entry.
- Define how many alarm pictures shall be saved in the alarm list with the buttons Number of alarm entries with pictures.

With the **Minimum Interval between Preview Images** button you can determine how large the spacing between two consecutive alarm images should be.

**Example:** If a value of 5 seconds is entered, you will cover a total of 20 seconds because a period of 5 seconds will pass between each alarm image.



In the menu Manual Recordings you can adjust the parameters for manually started recordings.

Define with the buttons **Duration** how long a manual recording shall be.

In the menu **Button "Instant Recording"** you can configure how the button **Instant Recording** in the **Management** shall work.

The two modes you can choose from are:

 Recording of ONE camera with Drag & Drop: Use this mode start a manual recording of a single camera by clicking on the button Instant Recording and Drag & Drop it into the picture of the desired camera.



- **Panic Mode:** In this mode you only have to click on the button **Instant Recording** once. Immediately **all** visible cameras will be recorded.

In the menu **Local Recordings of Live Pictures** you can configure the recording of pictures on the CamlQ<sup>®</sup> Control computer.

- In the text field Path you can see where on your computer the local recordings are saved.
- Click on the Folder button to change the directory.
- Use the buttons Maximum recording duration to define how long a recording shall be. This is for the Automatic recording of Cameras (see below).
- Enter a value with the buttons Stop recording if hard disk space is less than. This value is the
  hard disk space which will be manumitted by CamIQ<sup>®</sup> Control. If only this value of hard disk space
  is left, the recording will stop.

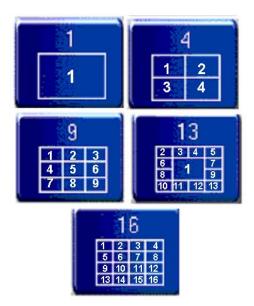
The purpose of this function is that the hard disk must not be filled to the last byte, because many programs (like Windows®) need a certain amount of space to work. If the hard disk has too little free space the programs can run unstable or do not start at all. Especially in case of Windows® this would be a very bad situation.

In the menu **Automatic recording of Cameras** you can adjust that any camera will be recorded automatically, if it is shown in a specific monitor.

- Click on the checkbox Automatic recording active to enable this function.
- Use the buttons **Monitor** to define in which monitor the recording shall take place.
   How the monitors are counted can be seen in the picture to the right.

**Attention:** Don't use **Automatic Recording** and **Sequences** in the same monitor. If you do so, CamlQ<sup>®</sup> Control will produce a real flood of short recordings.

Please note: If, however, you use this function with the automatic alarm activation function, you can configure Control in such a way that the automatic alarm recording takes place on the Control PC itself. You could set the alarm activation as well as the automatic recording to monitor 0, for instance.



Please note: You can set the length of the recording in the Manual Recordings (6) menu.



In the menu **Joystick Settings** you can configure the steering of PTZ cameras via joystick. The joysticks or joypads can be plugged into the gameport or the USB port. You can use usual devices as known from computer games.

We recommend analogue joysticks, because they can be moved into 360 directions and can recognize the intenseness of the movement. Four fire buttons are needed and have the following functions:

- Fire 1: Zoom in
- Fire 2: Zoom out
- Fire 3: Focus near
- Fire 4: Focus far
- Click on the button Activated to enable the steering via joystick.
- Click on the checkbox Invert y Axis to invert the directions of the y axis. This means that the
  camera will pan down when you press the joystick up and vice versa. Just like an airplane.
- Use the buttons Sensivity to adjust how sensitive the camera reacts to the movement of the
  joystick. Maybe you have to test a few settings before it suits you perfectly.
- Use the buttons Tolerance to avoid unwanted sending of steering signals. Analogue joysticks show signs of abrasion when they are used very often. Then the stick itself does not sit very tight anymore and begins to lean to one side. So it can happen that steering signals are sent unintentionally. This happens also if the joystick is poorly calibrated. (calibration is done in the control panel of Windows®)
  If you should notice such behaviour of your joystick just rise the Tolerance. Doing this compensates for the "false" control signals sent out and will not influence the moveable cameras.

In the menu **Application Watchdog** you can combine CamlQ<sup>®</sup> Control and the program **Watchdog** (see chapter **Watchdog** in this manual), so that **Watchdog** will look after CamlQ<sup>®</sup> Control.

Activate the checkbox Send "ALIVE" packets to enable this function.

In the menu **Program Start Sound** you can configure the start sound of CamlQ<sup>®</sup> Control.

Click on the checkbox Activated if you really like the CamIQ<sup>®</sup> Control start sound so much that you want to hear it every time when the software is starting.

Congratulations! Now you have completed the basic setup of CamlQ<sup>®</sup> Control and used all configuration possibilities.

Your security system is now ready for work and can be operated in the **Management** with all its functions.



### 4.11.1 Hardware Acceleration

H.264 video streams will be decoded by using modern graphics chips, thus reducing the CPU workload and further enhancing image performance.

In this connection, special video processors integrated in the graphics chips take over the decoding. Dedicated video cards and integrated graphics chips (APU, for example) from various manufacturers (Intel, nVidia, AMD/AT) are supported on compatible Windows systems.

**NOTE:** In order to preclude errors and problems caused by older drivers while also attaining the best possible performance, we additionally recommend that you install the latest version of the video card driver.

Get more detailed information concerning device compatibility at our website

Open the Setup Assistant in the local configuration menu in order to edit the hardware acceleration settings.

Satellite Manager: Configuration > Manager (local) > General > Hardware acceleration
Control: Configuration > Basic setup > Miscellaneous > Hardware acceleration

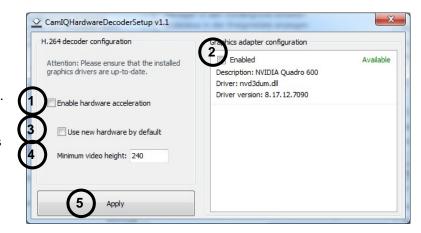
Monitor Extension: Configuration > Hardware acceleration

\*\* Hardware acceleration configuration

To activate hardware acceleration for this CamlQ<sup>®</sup> Satellite Manager, check the "Enable hardware acceleration" (1) box. Additionally, activate the desired video card (2) in the video card selection list (all recognized video cards are displayed here. If a larger selection of video cards is available, you can also select several of these to be used for hardware acceleration.)

Activate the "Use new hardware by default" (3) option in order to use a new device for hardware acceleration when hardware changes are made (when a video card is replaced, for example) without having to activate a new device.

Since hardware decoding can be ineffective when the image resolution is low, a minimum frame height can be entered here (4), which is necessary to ensure that the video stream remains hardware-decoded.



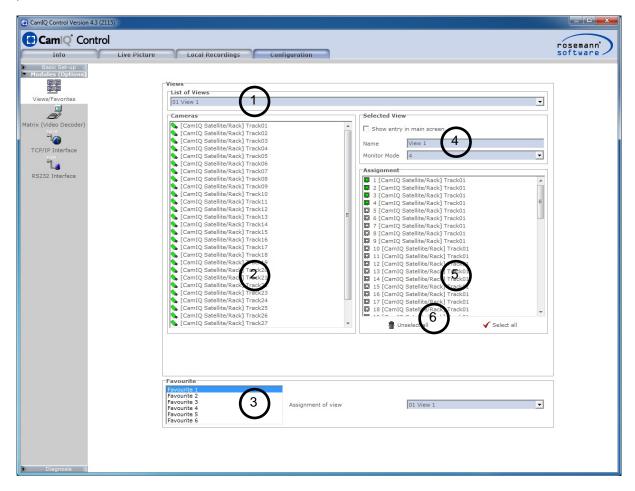
Click on "Apply" (5) to take over the setting changes and then restart the software.



## 5. MODULES (OPTIONS)

### 5.1 Views/Favorites

The Control software offers you the possibility of saving preferred views, thus making them available to you per mouse click. In this way, you can put together your own personal view and call it any time you wish.



First select one of the view profiles available in the Views List (1) you would like to edit.

In the Selected View (4) menu you can further define the view profile as desired.

- When you activate the Display in Main Screen function, this view can be called up directly from Live Image. It is otherwise not available.
- In the **Designation** field you can give your view a name.
- You can determine which multi-view should be used with the Monitor Mode selection list. You can also decide here how many cameras can be displayed with this view.
- Now just pull over the cameras to be switched from the Camera List (2) field and drop them into their positions in the Switching (5) field. The green-marked positions will be the only ones used



by the view.

**Please note:** Also position cameras in the gray zones in order to enable a good view should the multi-view in **Live Image** be increased. This is necessary because when there is a multi-view increase, additional cameras will be displayed along with those selected for this view profile. You can determine these by also allocate cameras to the gray positions.

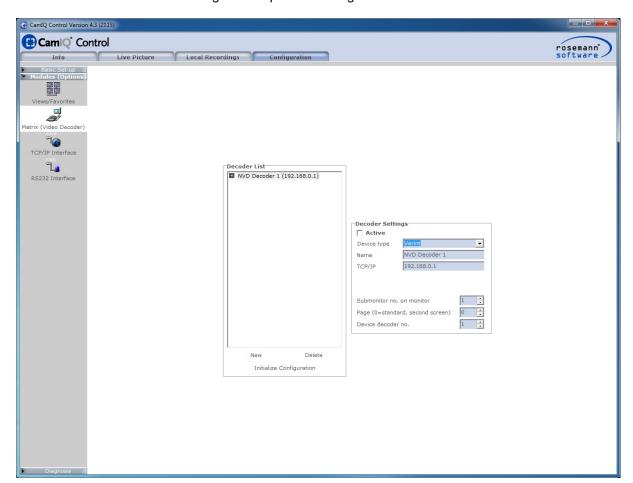
- In order to switch all the cameras in their current order, click on the Select All (6) button.
- To delete the current positions, click on the Select none (6) button.

In the **Favorites (4)** field, you can associate each of the six view buttons available in **Live Image** with a corresponding view profile to give quick access to them through **Live Image**.

To do this, first mark a view button in the Favorites (3) list and then select a view profile from the View Assignment (3) selection list.

### 5.2 Video Decoder

The **Matrix** Option allows to connect CamlQ<sup>®</sup> Control with up to 16 **AXIS Network Video Decoder 292** and to forward these video signals to up to 16 analogue monitors.





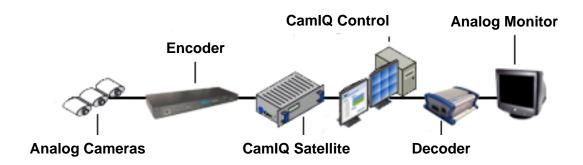
- Click on the button Add Device.
- You can name the decoder by clicking in the field Name and entering the name.
- Type the TCP/IP address of the decoder in the field IP address.
- In the Fields **Username** and **Password** you can enter the login data you have defined earlier in the configuration menu of the AXIS decoder.
- In the menu Monitor you can define which monitor shall be combined with the actual decoder.
- In addition, select the page from the Monitor Page (3) button on which the monitor just selected is located. Page 0 will serve here as the second hardware screen allowing multi-view, page 1 is the first matrix screen, etc.
- Using the Decoder No. (3) button, you can issue a device number to every decoder.
- Activate the decoder by clicking on the checkbox Active.
- To remove the decoder click on the button **Delete**.

### 5.3 Video Decoder in the Application

The decoder is set to work with a specific monitor. Each camera signal that is pulled into this monitor will also be processed by the decoder at the same time so that it can issue this signal over its analog output. In this way, you can remotely control the switching of video signals on analog monitors.

Please note:

- The encoder must be connected to CamIQ® Satellite.
- The decoder uses encoder #2 of the given video source.

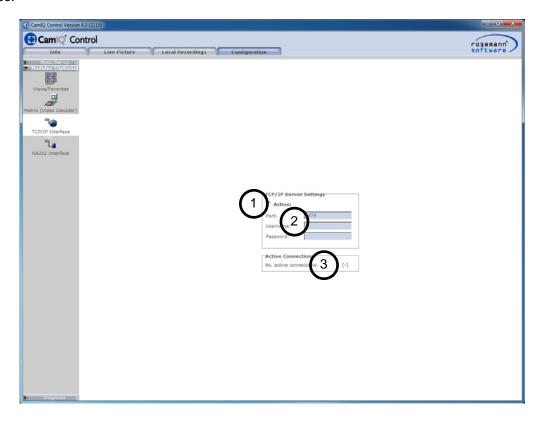




### 5.4 TCP/IP-Interface

The **TCP/IP Option** provides an interface, which can be used for connecting CamIQ<sup>®</sup> Control with other individual programmings. API connections are supported.

CamIQ<sup>®</sup> Control stages as an TCP/IP server. In order to use this interface, you will need an additional license.



In order to open a connection with Control you basically have two possibilities to choose from:

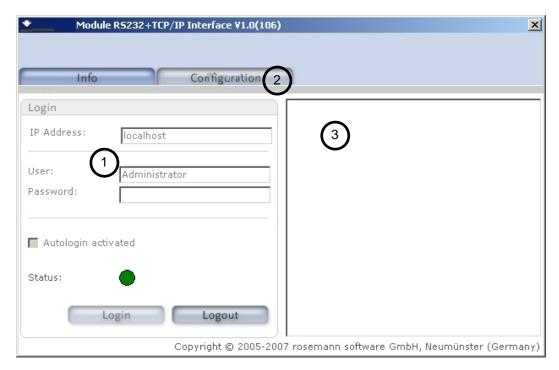
- 1.) You can send commands directly to Control using third party software. To do this you will need the API with the necessary instruction set. In order to get the API, you will need to contact your distributor.
- 2.) Alternatively, you can send commands to the TCP/IP module (see Chapter 5.4.1). The TCP/IP module parses the commands as you have configured them and then sends them on to Control.
- In the field **Port (2)** you can assign a port for the communication between CamlQ<sup>®</sup> Control and the individual programming. Port 1474 is recommended.
- If you want to protect the connection between CamlQ<sup>®</sup> Control and your programming you can enter a User name and a Password.
- You can activate the TCP/IP server with the Active (1) button.
- In the Active Connections (3) field, you can see how many connections are currently open over the interface.

Please note: After configuration, restart Control to initiate the changes you have made.



### 5.5 TCP/IP-Module

The TCP/IP Alarm Module connects the alarms issued by a given system with Control.



• (1) Enter the server's IP address along with a user name and password. Click on the "Login" button to open a connection. When a successful connection has been established the status indicator will turn green.

**Please note**: Activate "Autologin activated" if you wish to have the current account log in automatically when the software is started.

- Incoming alarm messages are displayed in the text field (3).
- (2) Configuration of Incoming Alarm Messages

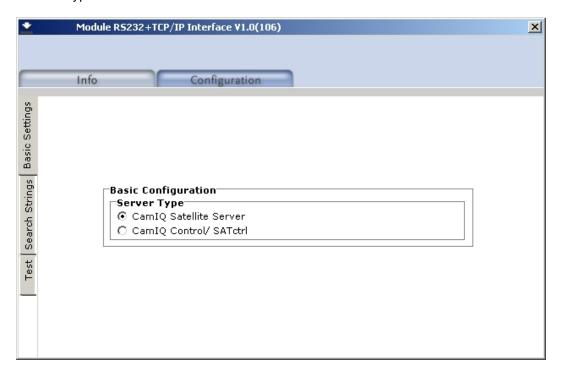
For the configuration, you have the choice from among the following three categories:

- 1. Basic Settings
- 2. Search Strings
- 3. Test



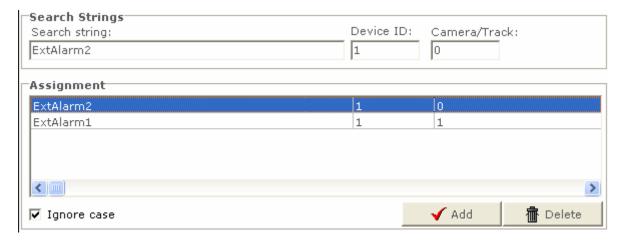
### 1. Basic Settings

First select the type of server.



## 2. Search Strings

Determine the incoming (received) strings in the "Search Strings" category.



To add an alarm message, select the **Add** button. In **Search string**, add the alarm designation that will be sent from the third party system. You can choose the device that is to receive the message with "Device ID". The device ID will be displayed in the **Devices (Satellites)** menu (see Chapter 4.1). Associate a camera to the device using **Camera/Track**. Camera numbering begins with 0.



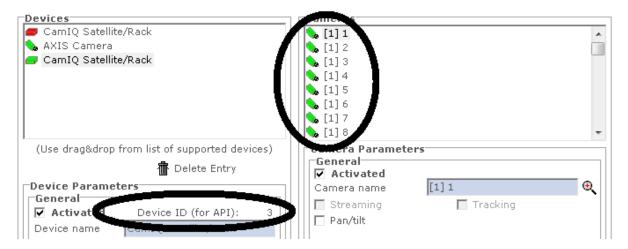
In order to delete an entry again, select it and click on Delete. Activate Ignore case to override
questions about the capitalization of initial letters.

Through this process you determine which alarm messages will be sent to the TCP/IP Alarm Module from a third party system. Decide how the module will react to these alarm messages in the following box:



- Ignore non-listed strings: Messages received that are not defined on the list will be ignored.
- Trigger alarm on non-listed strings: Select a device in the Device ID field (see above) and a
  track number in the Camera/Track field (see above). This device/track will receive from Control all
  alarms that have not been defined on the list.
- Trigger alarm on every string: A received alarm message will trigger an alarm for the track number listed next to it as well as for an additional track number if it is entered on the list.

**Example:** The alarm messages "ExtAlarm1" - with device ID 1 and camera number 1 - as well as "ExtAlarm2" - with device ID 1 and camera number 0 - have been defined (see image above). For alarm messages not defined on the list, device 1 and camera number 3 have been entered.



Control is configured as follows:

- Ignore non-listed strings The following alarm messages occur:
  - "ExtAlarm1": An alarm on "Camera 1" is generated in Control for the "AXIS Camera Server".
  - "ExtAlarm3": No alarm in Control.
- Trigger alarm on non-listed strings The following alarm messages occur:
  - "ExtAlarm1": An alarm on "Camera 1" is generated in Control for the "AXIS Camera Server".
  - "ExtAlarm3": An alarm on "Camera 4" is generated in Control for the "AXIS Camera Server".



- Trigger alarm on every string The following alarm messages occur:
  - "ExtAlarm1": An alarm on "Camera 1" is generated in Control for the "AXIS Camera Server". Additionally, an alarm is generated for the "AXIS Camera Server" on "Camera 4"!
  - "ExtAlarm3": An alarm on "Camera 4" is generated in Control for the "AXIS Camera Server".

### 3. Test



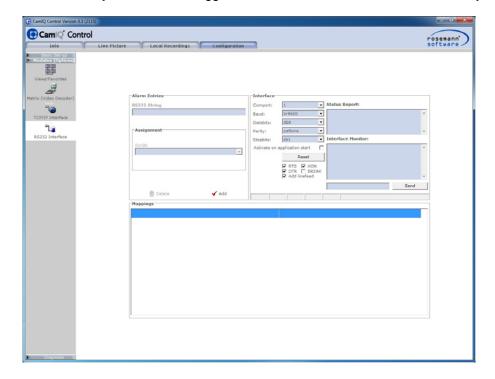
Test your configuration by entering a test string ("ExtAlarm1", for instance) in the text field and clicking on "Send Teststring".

**Please note**: Select "Delete string after sending" if you wish to delete the string after you have sent the alarm to Control.

**Please note**: To close the module, click with the right mouse key on the icon in the Windows taskbar (lower right in the screen) and select "Close" from the open menu.

### 5.6 RS232 Interface

The RS232 option allows to trigger alarms in the CamIQ® Control software by RS232 strings.





- In the field RS232-String you can enter a string with max. 30 characters.
- You can associate this interface to a script. To do this, select a script from the Script (2) list.
- Click the button Add for saving the configurations. A new entry will be added in the field Assignment.
- Click the button **Delete**, if you want to delete the current configurations.

### The **interface** can be configured individually:

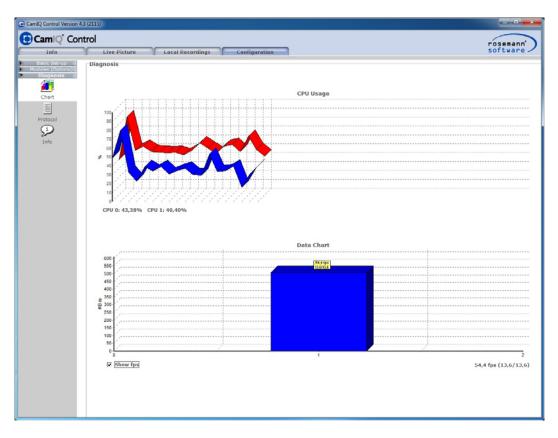
- Choose the COM-port you want to configure. This can be a local COM-Port (COM 1-4) or a TCP/IP – RS232 converter. But the converter is just supported conditionally.
- Select the speed at which the communication is done from the list Baudrate.
- Configure the size of the data bits blocks in the list **Databits**.
- Configure the function Parity for making disturbances in communication visible.
- Choose the amount of Stoppbits which follow every data bits block from the list Stoppbits.
- Activate the function Activate when started, so that the interface will be started automatically when you start CamlQ<sup>®</sup> Control.
- Configure the data flow by activating or deactivating the functions RTS, XON, DTR, BREAK and Line Break.
- Reset the settings by clicking on the button Reset.
- In the menu Interface Monitor you can send RS232 strings.
- The feedback will be shown in the menu Status messages.



### 6. CONFIGURATION DIAGNOSIS

### 6.1 Chart

In the menu **Chart** you can see the CPU usage of the CamlQ<sup>®</sup> Control computer and how many pictures are transferred.



The **CPU Usage** is shown in the upper diagram. A varying usage near 100% is no problem! But it shouldn't be stable at 100%.

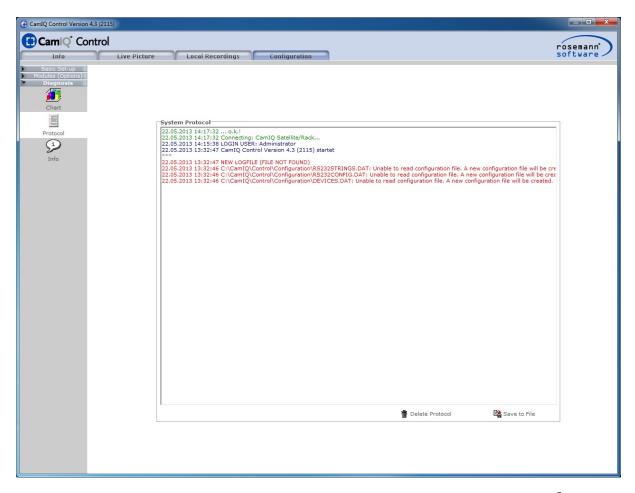
In this case you should check if your computer has enough computing power (see the **Hardware Requirements** in chapter 1) and if other applications are running in the background which need too much computing power.

The lower diagram shows the **data flow** of the single devices and how many **frames per second** are transmitted. When you move the mouse pointer over a bar the name of the device will be shown above.

- Activate the checkbox Show fps to display the frames transmission.
   A yellow field will appear above every bar where you can see the FPS.
   Below this there are two more values. But they are displayed for service purposes only.
- If you wish an overview for every single camera just double click on a bar. Now all connected cameras are shown to you with their individual data.



### 6.2 Protocol



All incidents (e.g. logins, alarms, program starts) are documented in the **protocol** of CamIQ® Control.

- Use the button **Delete Protocol** to delete the entire protocol. Keep in mind that this erasure will be documented!
- Use the button Save to File to export the protocol as a \*.rtf file. This way you can save the protocol on your system or a mobile storage media.

## 6.3 Info

This menu offers further information about CamlQ<sup>®</sup> Control and its options. In addition to that you can visit the CamlQ<sup>®</sup> website www.CamlQ.net if your computer is connected to the internet.

## 6.4 User Manual

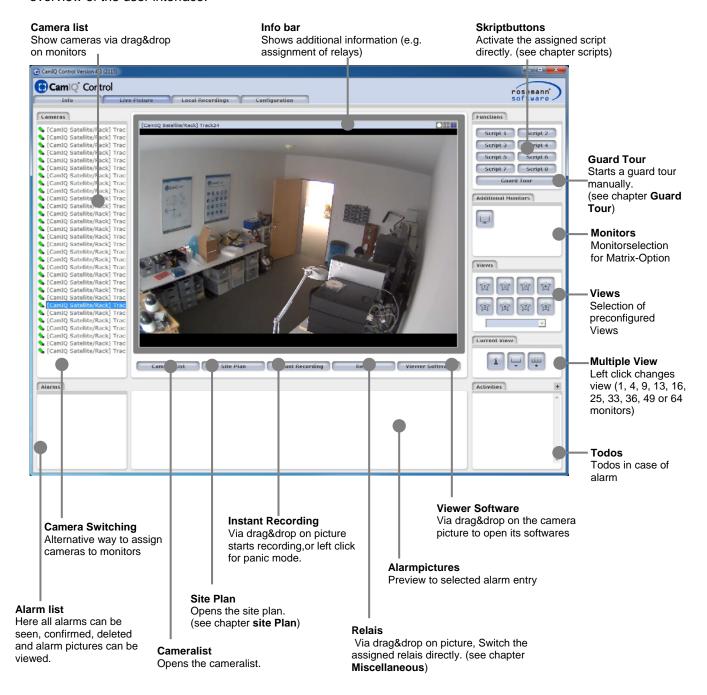
Click on this menu in order to have this manual displayed in PDF format.



### 7. LIVE PICTURE

## 7.1 General Overview

The **Live Picture** is the user interface of CamlQ<sup>®</sup> Control. It consists of many different parts which on the one hand offer operation possibilities and on the other hand provide information to the user. On the next pages all parts and their functions will be explained one by one. But first a general overview of the user interface:





### 7.2 Camera List

The **Camera List** shows all cameras that you can access. These cameras were configured in the menu **Devices (Satellites)**.

The different **camera symbols** have the following meanings:

- 📞 camera is accessible
- 📞 camera is a PTZ camera
- camera's alarm processing is temporarily deactivated
- camera is not working! Please check the camera or the connected device.
- You can see a camera picture by clicking on the camera symbol and then moving it via drag & drop to a monitor. The camera picture will then be shown on the monitor.
- You can enable the temporary deactivation of alarm processing not only in the configuration menu Devices (Satellites), but also by performing a right click on the desired camera.
   A little popup menu will appear where you can choose to enable or to disable the temporary deactivation.

If **temporary deactivation** is enabled, the camera symbol will change to **3** and the camera won't send any alarms to CamlQ<sup>®</sup> Control anymore.

The alarm processing of the connected device itself continues as usual. But there is no notification about this in CamlQ<sup>®</sup> Control.

That a camera shows **no picture** can happen because of two reasons:

- The user wants to see a picture from a camera he has no rights for (see configuration menu **User Rights**). Is this the case there will be a blue screen instead showing the message "- access denied -".
- 2. The camera sends no video signal to CamIQ<sup>®</sup> Control anymore. Either the connection to the device got cancelled or the camera itself is broken. Is this the case there will be a blue screen instead showing the message "- no signal -".

## 7.3 Displaying Cameras

As an alternative to the camera switching possibility described above, you can also use this small console.







- First select a camera from the camera list in the Camera field. The number corresponds to the number displayed in front of the camera name. If no number is visible, it can be activated in the Miscellaneous menu (see Chapter 4.10).
- Then select a monitor. Monitor 1 is always upper left, Monitor 2 next to it, etc.
- Finally, select a page. Pages are only available using the matrix option which provides titles (designations) to additionally connected screens. Without the matrix option, only page 0 is available.
- Then just click on Display.



### 7.4 Alarm List

In the **Alarm List** all incoming alarm events are listed with their camera names and time. The actual alarm is always in position one.

Four symbols are used in the alarm list:

Alarm that is not acknowledged yet with available alarm pictures

Alarm that is already acknowledged with available alarm pictures

alarm that is not acknowledged yet without available alarm pictures

in - alarm that is already acknowledged without available alarm pictures

When an alarm occurs it will on the one hand be listed in the **alarm list** and on the other hand the picture of that cameras gains a red border.

- You can see the picture of the alarm camera by moving the camera symbol from the alarm list to the desired monitor via Drag & Drop.
- Do a right click on an alarm to open the alarm popup menu
- Click on Confirm Alarm or do a left click on the alarm entry to acknowledge the alarm. The alarm symbol will turn grey and the red border around the camera picture will disappear.

Confirm Alarm Show Alarm Picture Start Viewer Software Delete Alarm Entry

Click on Show Alarm Picture to view the five pictures that caused the alarm. Move the mouse pointer on one of the little pictures and it will be shown above in original size. In the text field Comment you can enter a comment for the RSV Player and then click on the button Save to save this three-picture-recording in the folder of your local recordings.



- Click on Start Viewer Software to open the viewer software of the camera. You are logged in the device with the login data you have entered in the configuration menu Devices (Satellites). There you can see the recording of the alarm for example.
- Click on Delete Alarm Entry or do a double click on the alarm to delete it from the alarm list. According to your adjustments in the configuration menu Alarm Output it may happen that a message window will appear and asks you to approve the erasure of the alarm. In this case click on the button OK to delete the alarm.
- Click on Send Alarm E-Mail in order to send the alarm as an e-mail according to the configuration in the Message Transmission (see Chapter 4.6) menu.
- Click on the button to view the alarm pictures of the latest confirmed alarm.



### 7.5 Info Task Bar

If you hover the mouse pointer over the various items of the **Live Image** control element. Various pieces of information become visible in the gray bar over Live Image - information concerning a script currently being executed, for instance.

### 7.6 Script Buttons

These eight **Script Buttons** offer the advantage that they are always available and can be operated by a single mouse click. You have associated these buttons to scripts in the **Miscellaneous** configuration menu (see Chapter 4.10).

Do a left click on the relay button you want to operate.

The operation mode of the relay has to be configured in the menu **Devices (Satellites)** in the configuration of the adapted camera.



 Move the mouse pointer above a Script button. The assignment of the button will be shown in the info bar (above the camera picture).

**Please note:** More information about scripts is available in Chapter 4.9.

### 7.7 Guard Tour



When you click on the button **Guard Tour** and in the configuration menu **Guard Tour** a guard tour is configured you start a **Guard Tour** manually.

- One after another all cameras you have selected in the configuration menu will be displayed.
   When the configured time has passed a window appears including the buttons **OK** and **Cancel**.
- Click on the button OK to acknowledge the actual picture and switch to the next one.
- Click on the button Cancel to stop the Guard Tour immediately.

Note that also manually started guard tours will be documented in the **guard tour protocol**. You can look at the **Guard Tour Protocol** in the configuration menu (see Chapter 4.5).

## 7.8 Monitors

The monitor symbols displayed here represent the screens otherwise referred to as **Pages** by the software and the scripts. In the basic version of the Control software, this operating element is meaningless. This, however, changes dramatically once the matrix option is in use. For this reason, this operating item is covered more thoroughly in the chapter covering the **Matrix Option** (see related chapter).

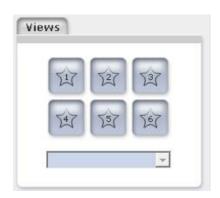




### 7.9 Views

You can configure various views in the **Views/Favorites** menu (see Chapter 5.1). They can be opened using these buttons.

- You can open views that you have added to Favorites with a simple click on symbols 1 through 8.
- You can open all other views having the Display in Main Screen option activated by choosing them from the selection list. To do this, open the list and click on the desired entry. Now you have access to the selection list and can use drag & drop to pull a selected view into the desired monitor.



### 7.10 Current Views

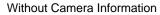
This view allows you to modify the multi-view in the second monitor.

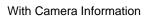
Click on the button to display more monitors.

Click on in order to display fewer monitors.

With the **Camera Information** button you can add or remove both the name and the **Expanded Titel Bar** for the cameras displayed. Please note that the **Camera Information** will be placed above the top of the image and that the upper border of the image will not be visible.

Click with the left mouse key on the Camera Information button to activate or deactivate this bar.





**Current View** 



A part of **Camera Information** is the **Expanded Titel Bar**. These are buttons and status displays that enable you to have quick access to every individual camera's information and functions.



### 7.11 Monitor Symbols

Which symbols will be appear in the camera info can be configured in the configuration menu **Miscellaneous**.

The following symbols can be shown:

# Instant Recording: Clicking on this button starts an Instant Recording. As long as the recording is active, the button will turn into.

## Relays:

Click on this button to switch the relay which is assigned to the camera. If the relay is released the symbol will look like this . When the relay is holding at the moment the button will look like this ...

**Note:** Some devices (e.g. AXIS) don't give a feedback about the actual state of the relays. That's why CamIQ® Control can only display the last state caused by a user. This doesn't need to be the real one.

## Streaming:

Clicking on this button will activate the streaming for the camera. This button is only accessible, if the camera supports this function. Note that **Streaming** will cause a high network load. If you want to deactivate **Streaming** click again on the button which will look like this then.

## Move Control Panel:

Clicking on this button will open the **Move Control Panel** that can control PTZ cameras. Of course the panel is only accessible if the actual camera is a PTZ camera.

## Sequences:

If a monitor is configured to show a **Sequence** (see configuration menu **Sequences**) it can be started by clicking on this button. The symbol will turn into and the sequence can be stopped by it. Besides that there are also the symbols and .

Use the button to go to the next camera of the **Sequence** and the button to go the last camera.

### A Automatic Recording:

The symbol for **Automatic Recording** is a button for activating and deactivating this function and an index. It shows that the monitor has been configured in the menu **Miscellaneous** for **Automatic Recording**. As long as the recording is active the symbol will look like this .

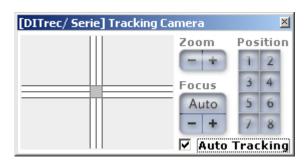
### Picture Updates:

The symbol for **Picture Updates** is not a button, but an index. The two green dots will twinkle for every picture update. The faster the dots twinkle the faster the pictures get sent over the network. If the dots do not blink, then there could be a problem.



### 7.12 PTZ Panel

In the Live picture you can steer PTZ cameras with the PTZ Panel.



**Note**: If you want to steer the **Tracking Camera** of a DIT**rec**, you have to disable the checkbox **Auto Tracking** first! After 1-2 seconds you can steer the PTZ camera.

You have to wait these 1-2 seconds, because after the deactivation the DITrec has to confirm it to CamIQ<sup>®</sup> Control.

This deactivation also has to be done when you want to steer the PTZ camera via joystick.

- To steer the PTZ camera click with the left mouse button into the grey square in the middle of the cross and hold it.
  - Now move the mouse pointer inside the steering field. Note that the farther away the grey square is from the centre of the steering field, the faster the camera will move.
  - If you use an analogue joystick the camera will move faster when you press the stick stronger to one direction.
- Zoom near and far by clicking the buttons + and -.
- Use the buttons + and to **focus**. But you can also use the button **Auto** to let the objective focus itself.
- Click on "Focus" to switch control to the "Iris" settings.
- Use the buttons 1, 2, 3, 4, 5, 6, 7 and 8 to let the camera move to preset positions. You can define the positions for each camera in the configuration of its viewing software. You can't define any positions in CamIQ<sup>®</sup> Control.
- Close the Move Control Panel by clicking on the button X.

## 7.13 Measures

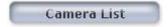
The **Measures** field displays the pre-set immediate actions to be taken in the case of an alarm, as well as further information. The field's content corresponds to the content in the text file that you have created in the **Devices (Satellites)** menu (see Chapter 4.1).

Click on the + button to open the Measures window. This allows you to view the full text should the content comprising the measures to be taken be too large for the small **Measures** field.





### 7.14 Camera List



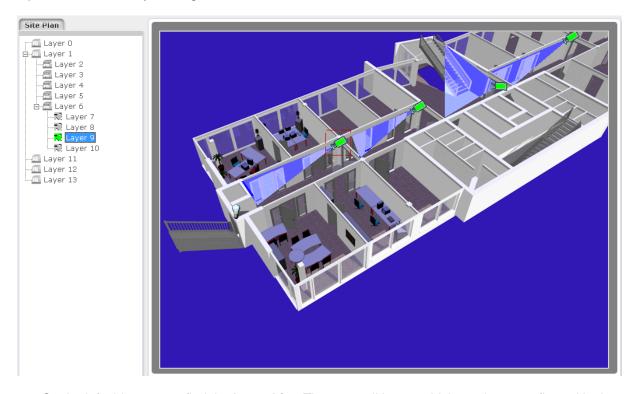
Click on the button **Camera List** to open the camera list. You can leave the **Management Site Plan** view this way. The functions of the Camera List can be found in the chapter **Camera List**.

### 7.15 Site Plan



The **Site Plan** allows an overview and operation of the entire object. It offers a visual overview of all cameras, sensors and actors. When an alarm occurs you can identify immediately where it comes from and react to it.

Open the Site Plan by clicking on the button Site Plan.



- On the left side you can find the Layer List. There are all layers which you have configured in the menu Site Plan before. Click on a layer to display it in the centre of the screen.
- Move the mouse pointer over an icon of the site plan. The name of the device will be shown in the Info Bar. In addition to that a small yellow message will appear which provides further information.
- You can display a camera picture from the site plan. Simply move a camera icon via Drag & Drop to a monitor.



- You can also switch a Relay in the Site Plan. Simply do a double click on a relay icon.
   The relay switches according to its configuration in the menu Devices (Satellites).
- Additionally you can double-click and run a script that has been saved in the site plan.
- When an alarm occurs the viewing angle of the alarm camera changes the colour according to your adjustments in the configuration menu Site Plan. You can immediately see which camera has sent the alarm.
- When a camera loses its signal the icon of the camera changes according to your adjustments.
- If an alarm is caused by a sensor (alarm input) the sensor icon will change according to your configuration.

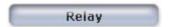
### 7.16 Instant Recording

Instant Recording

The button **Instant Recording** enables you to start the recording of one camera or the parallel recording of all visible cameras with only one mouse click (panic mode). How the button works must be defined in the configuration menu **Miscellaneous**.

- If the **Panic Mode** is activated do a left click on the button **Instant Recording**. All visible cameras will be recorded according to their configuration.
- Otherwise place the button Instant Recording via Drag & Drop on the camera picture you want to record.

## 7.17 Relay



Use the button **Relay** to operate the relay of every camera.

You can operate a relay by placing the button Relay via Drag & Drop on a camera picture.
 The operation mode of the relay can be defined in the configuration menu Devices (Satellites).

### 7.18 Viewing Software



Use the button **Viewing Software** to start the **Software** of the selected device.

Place the button Viewing Software via Drag & Drop on the camera picture. The Software of the device the camera belongs to will open and you are logged in with the login data you have entered in the menu Devices (Satellites).



### 7.19 PopUp Menu

Extensive sections of the Control software can be operated using a pop-up menu. This is especially useful when you operate Control with only one monitor.

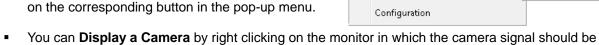
- **Open** the pop-up menu by clicking onto the multi-view screen with the right mouse key.
- If you want to start a camera for an instant recording, switch a relay, or execute the corresponding viewer software, first right click to open the pop-up menu in the image of the desired camera and then select the corresponding buttons.
- You can also play back a simple sequence from the camera in the monitor you right clicked on. A view opens from which you can select how far back the sequence should run.

A small player window will open which you can move freely and resize on the user interface.

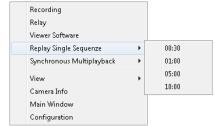
If you place a check in the "Multi-Playback" checkbox, the recording time of every other open sequence will become synchronized to yours. Each sequence will display the same point in time.

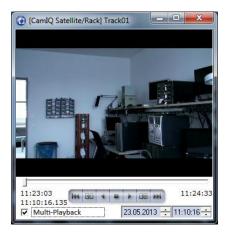
To close a player window, simply click on the X in the upper right.

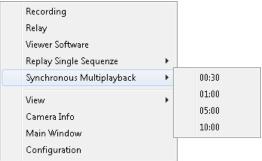
- The "Synchronous Multi-Playback" option will open a synchronized individual sequence for each switched monitor.
- Activate or deactivate the Camera Information by clicking on the corresponding button.
- You can switch between the Live Image (Main Screen) and the Configuration Menu by clicking on the corresponding button in the pop-up menu.



displayed. Subsequently use the mouse pointer to select the device and then click on the desired







camera.

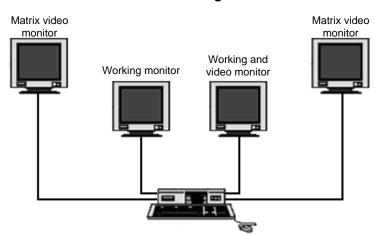


### 8. MATRIX

Control offers the possibility of operating more than just two screens. Up to seven monitors can be used, whereby one of these will serve as the main screen with the operating menus. The second screen serves - like before – as the working and video monitor. Ultimately, up to five additional matrix screens can be used purely as video monitors.

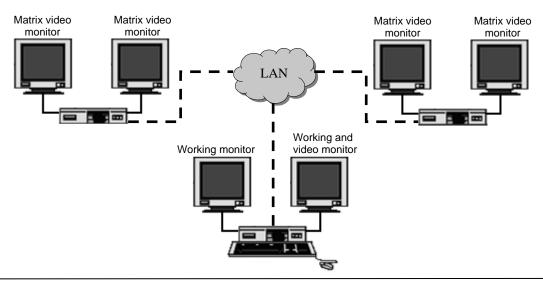
Monitors that are to be used as a part of the matrix must be connected to a PC. PCs do not normally have more than two monitor outlets, which is perfectly adequate for the normal operation of Control. So, in order to connect the additional matrix monitors you will either need an additional PC that also has the appropriate monitor outlets or more outlets on the existing Control PC. In the meantime, it is possible to install and use a second video card with two additional connections or even a single video card with four monitor outlets.

Here is a description of possible system configurations:



One PC with a video card offering four monitor connections

Three PCs, each with a video card offering two monitor connections





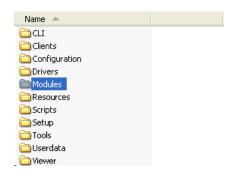
### 8.1 Installation

In order to use the Control matrix, you must first acquire and activate a matrix license (see Chapter 4.8). The number of monitors you wish to use is immaterial as the license must be registered only once.

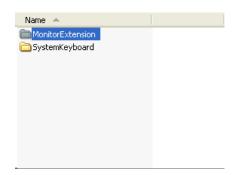
In order for matrix clients to connect to Control, it is necessary to open the **TCP/IP Interface** menu (see Chapter 5.4) and first activate the interface there while also entering a user name and a password.

Thereafter, each PC that will be operating a matrix monitor must have the matrix module installed on it. This module must be installed one time for each individual monitor. In other words, the following steps must be carried out four times for a PC to which four monitors are connected. The following steps are not necessary for the operation of the working and video screens, they function as is. They refer strictly to the matrix video monitors.

- Open the Control software installation directory. This is normally found under the C:\Programs path.
- Open the **Modules** directory.



You will find there the MonitorExtension directory.



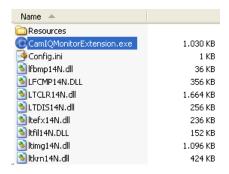
Make a copy of the MonitorExtension directory.
 If you plan to use additional matrix monitors on the Control PC, place the copy somewhere on this PC.

If, however, you plan to use other PCs as connection points for the matrix monitors, store your copy on a portable data medium and then on the hard drive of the respective PC or PCs.



For every matrix monitor that you wish to install on a given PC, you will need one directory copy. If you will be using a PC to which two matrix monitors will be connected, for instance, then you would create one copy of the directory with the name MonitorExtension\_1 and a second copy of the directory with the name MonitorExtension\_2.

The name you choose for the directories is up to you as it has no influence on functionality. **Ernie** and **Bert** would thus also be permissible names.



- After enough directory copies have been created, they must then be configured. Open the first directory and execute the MonitorExtension.exe file.
- The matrix client will open. At first you will see a large gray screen indicating that no connection could be made. This is to be expected.



Right click to open the matrix client's pop-up menu.



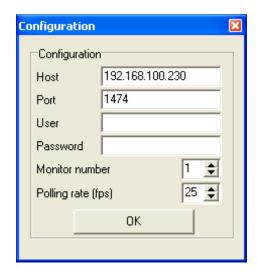
Select Configuration. Should this item not be available, it will be because the client is now trying to connect to the Control software. In this case, first click on Disconnect in order to break off this connection attempt. Thereafter you will be able to open Configuration with the pop-up menu.



When the small configuration menu opens, please enter the IP address of the Control PC in the Host field. Then you can enter the Port information over which the communication should take place. This setting must match the port setting entered in the TCP/IP Interface menu (see Chapter 5.4).

**Please note:** Should connection problems occur - and before calling hotline support - please make sure that the port entered is not being blocked by the PC's firewall or through the network.

Enter a user name and password in the **User** and **Password** fields. These entries must match those entered previously in the **TCP/IP Interface** menu (see Chapter 5.4).



Equally important is the **Monitor number**. Here is where you will enter which of the five possible matrix monitors is to be displayed with this PC. The first monitor receives the number 1, the second receives the number 2, etc.

As already noted, this configuration process must be made for each directory copy. The configuration fields will all have the same entries concerning the Control PC, only the **Monitor number** will be different for each directory. If you enter the same number twice, you will see the same image twice. If this is so desired then this configuration is fine. Generally, however, the preferred configuration is to allow for as many independent monitor views as possible; this will require a different monitor number for each directory.

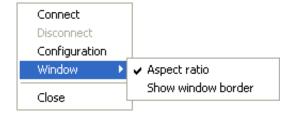
Finally, you can enter the **Polling rate**. This indicates the maximum number of images per second this matrix client can call from the Control software. If you want to save bandwidth in a network you should set this value lower.

When finished, click on **OK** to apply the configuration.

 You will now find yourself back at that empty gray screen. Right click once more and – this time select Connect from the pop-up menu. The client will now attempt to open a connection to the Control software.

**Please note:** A connection can only be made when, on the one hand, the Control software has been started and a user is logged in and, on the other hand, firewalls or similar software do not block the port to be used.

- You will be able to see the first live images as soon as a connection has been made. The matrix monitor will also now be visible in the **Monitors** field of the Control user interface (see Chapter 7.8).
- The pop-up menu also offers you the possibility of opening the matrix client either in full screen mode or in a program window that can be moved and resized as desired.





Activate the **Aspect Ratio** button so that the video images retain their aspect ratio whenever the size of the client window is changed. With the **Show window border** button you can determine if the program window border around the client should be visible or not. This function must be activated if you want to change the size of the window.

Make these configuration changes for every directory copy and matrix monitor. As you do this, the
matrix monitors will slowly begin to fill up **Live Image** and they can then be operated.

### 8.2 Operation

Once the matrix function has been installed and activated, the operating possibilities of Control change in **Live Image**. You now have access to all activated matrix monitors from the working monitor.



is the working and video screen. But when the matrix function is in use, all connected clients appear here as well. The number seen in this graphic corresponds to the **Monitor number** you previously entered in the matrix client configurations.

As described in Chapter 7, you can adjust the image display in Control completely as you wish. You can determine how many camera signals on one screen should be displayed, which cameras these should be and which predefined views you wish to use.

All of this can be carried out now with the matrix monitors as well.



As already described, Control offers three types of monitors:

1. The working monitor



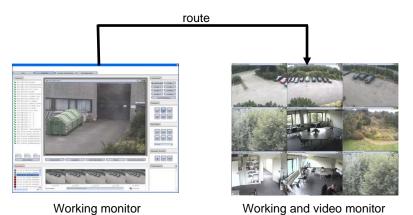
3. The matrix video monitor

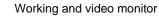


2. The working and video monitor



There are two working monitors: One that has all of the menu interfaces and one that only displays video images. All of the buttons and functions used on the first working monitor only affect the second working monitor. Any other matrix monitors that may have been installed will not be affected by this for now.







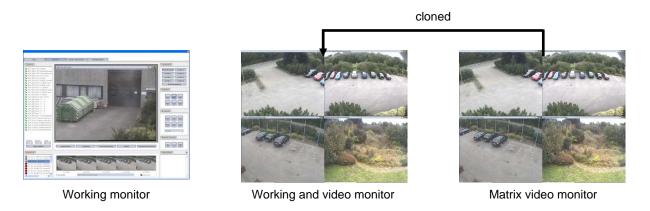
Matrix video monitor

When wanting to work on one of the matrix monitor screens, it must first be selected from the Monitors field.

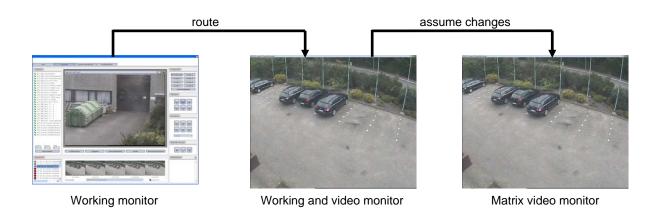




By doing so the matrix monitor will be cloned into the working and video screen.



Now the view can be altered as desired. You can manually change the view and the cameras or you can also use preconfigured views. All of the functions described in Chapter 7 are available. From now on, every change made at the working and video screen will also be applied to the matrix monitor and will immediately become visible there.





Once the monitor has been configured as desired, you can click once again on the icon without a number in the **Monitors** field thus switching the display back to the working and video screen.







Working and video monitor



Matrix video monitor

**Please note:** Although the matrix monitors are connected to a PC to which input devices like a keyboard and a mouse are also attached, it is not possible to alter the view or the display of the video signals here. This can only be done at the Control PC!

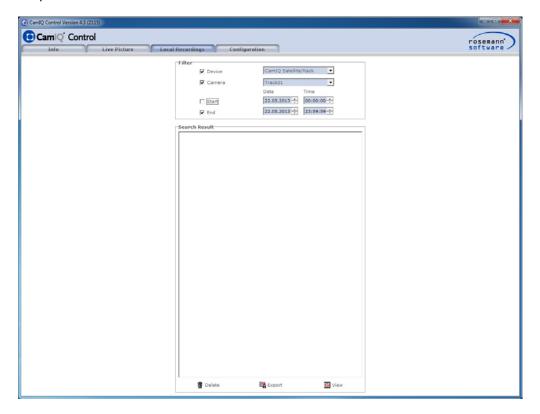
**Note:** You can also activate the hardware-supported decoding of live images in the CamIQ Monitor extension. You can find more detailed information concerning hardware acceleration in Chapter "4.11.1 Hardware Acceleration."



### 9. RECORDING

## 9.1 Local Recordings

In the menu **Local Recordings** you can organize the recordings that were saved on your CamIQ<sup>®</sup> Control computer.



In the field **Search Results** all recordings are shown to you that are saved in the folder for **Local Recordings**.

You can change this folder in the configuration menu **Miscellaneous**.

Use the menu Filter to narrow the range of displayed recordings by defining filters.

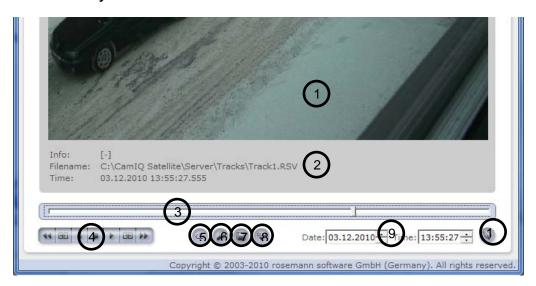
- Furthermore you can select a **Device**. As a result CamIQ<sup>®</sup> Control will only display recordings of one device.
- If you have set the filter **Device** you can also activate the filter **Camera** by clicking on its checkbox. Now you can see recordings of a specific camera only.
- You can define a time when the showing of recordings shall start by activating the checkbox Start and then enter Date and Time.
- In addition to that you can define a time when the showing of recordings shall end by activating the checkbox **End** and then enter **Date** and **Time**.

Whenever you activate a filter the new selection of recordings will automatically be shown in the field **Search Results**. You can mark them via mouse click.



- Use the button **Delete** to remove the selected recording from your system. It is then irretrievably lost.
- Use the button Export to save the selected recording in another folder or on another storage media. The recording will be saved in the protected RSV Format together with the RSV Player. In this way, one can write the recording to mobile memory media, for instance, and play it on other computers.
- Click on the button View to open the RSV Player and play the recording.

### 9.2 RSV Player



In order to play the sequence, open the "Sequence Viewer" folder and double-click on the "RSVPlayer.exe" file.

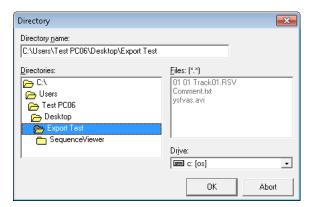
The recorded image can be seen in section (1).

Sequence information is displayed under item (2):

- *Information:* The name of the track
- File Name: The path and the file name of the file being displayed
- **Time:** Time and date of the current image
- You can navigate within the sequence with the help of the slider (3) by clicking on the gray vertical bar and moving the mouse pointer left or right while holding down on the mouse key.
- In section (4) there are other buttons with which the sequence can be controlled:
  - Jump to the first image of the sequence
  - One image backward
  - Play backward (click repeatedly to increase the speed)
  - Stop the playback
  - Play forward (click repeatedly to increase the speed)
  - One image forward
  - Jump to the last image of the sequence



- When the repeat button (5) is active, the open sequence will automatically repeat in a loop.
- The magnifying glass symbol **(6)** allows marked clip images to be enlarged in the display. After you have activated this button, the mouse pointer changes into a small crosshairs symbol. You can now select a clip from the camera image by clicking on it and moving the mouse with the button held down. A square frame appears. When you let go of the mouse button, the image cutout will now be seen in full-screen view. With a right-click of the mouse, you can return to the normal view.
- With the diskette symbol (7) you can save the current image as a bitmap graphic on the hard drive or on a mobile storage medium.
- A window opens in which you can enter a location and a file name under which the file will be saved.
- Use the "Export" button (8) to save a copy of an opened RSV file in the unprotected AVI format. This copy can then be played with an ordinary player program (Windows Media Player, for example).
- Using the "Date" and "Time" buttons (9)
  allows you to set a date and time to which the
  sequence will jump directly.
- With the open symbol (10) you can open another sequence to be played.





## 10. RS Watchdog

The service **RS Watchdog** can be used as a kind of overseer for CamIQ<sup>®</sup> Control. In the configuration menu **Miscellaneous** you can adjust that CamIQ<sup>®</sup> Control sends the so called ALIVE packets to **Watchdog**. The **Watchdog** notices these packets and if they are not sent any more (e.g. because CamIQ<sup>®</sup> Control was shut down) **Watchdog** will close CamIQ<sup>®</sup> Control (if not already happened) and will start it again. This way it is guaranteed that CamIQ<sup>®</sup> Control is always up and running.



RS Watchdog is not a program, but a service. That's why you cant's start it like any other program. After the installation of RS Watchdog you can find under <Start - Programs - CamIQ Control - Watchdog> the entry Register Watchdog Service. Click on it and restart your computer. While the booting process RS Watchdog gets started. You will find a new green symbol in your task bar next to the clock.

- Click on the green icon to open the **RS Watchdog** program (but this is not necessary).
- When you launch CamlQ<sup>®</sup> Control Watchdog will open a task with a green bar. This bar will shrink untill an ALIVE packet from CamlQ<sup>®</sup> Control arrives. If the bar has shrinked to zero Watchdog will restart CamlQ<sup>®</sup> Control.
- Use the button Stop to close CamIQ<sup>®</sup> Control. Watchdog won't wait for ALIVE packet and won't restart CamIQ<sup>®</sup> Control.
- Use the button Start to restart a stopped task. If you use this button only you prevent a flow of CamlQ<sup>®</sup> Control tasks.
- Use the button Save Tasklist to save a task permanently. This way you can waive the CamIQ<sup>®</sup> Control desktop icon and start CamIQ<sup>®</sup> Control always via Watchdog.

All happenings get documented in the protocol of **RS Watchdog**.

Use the button **Delete Protocol** to delete the **Watchdog Protocol**.
 Note that this erasure will be documented.



## 10.1 CamIQ<sup>®</sup> Control and Windows® User Accounts

When CamlQ<sup>®</sup> Control shall be used by a Windows® user without administration rights you can do so with the help of **Watchdog**. Unfortunately there are problems in this case. Further information about this and an alternative work around can be found in the chapter **Problems**, **Answers**, **Questions**. For the solution with **Watchdog** you have to take the following steps:

- Login to Windows® as user with administration rights
- Watchdog has to be started
- Start CamIQ<sup>®</sup> Control
- Click on the button Save Tasklist
- Click on the button Stop
- CamIQ<sup>®</sup> Control will shutdown
- Log off from Windows® without shutting down the computer
- Login again to Windows® with the user that shall operate CamlQ® Control
- Open the Watchdog program
- Click on the button Start to launch CamlQ<sup>®</sup> Control
- Now you can operate CamIQ<sup>®</sup> Control with this Windows® user account.



## 11. NOTES